	Page 1
1	IN THE UNITED STATES DISTRICT COURT
	FOR THE NORTHERN DISTRICT OF OHIO
2	EASTERN DIVISION
3	
4	TN DE MAETONAL DEEGGETEETON MET N. 0004
5	IN RE: NATIONAL PRESCRIPTION MDL No. 2804 OPIATE LITIGATION Case No. 17-md-2804
5	OPIAIE LIIIGAIION Case No. 17-md-2804
0	This document relates to: Judge Dan
7	Aaron Polster
8	The County of Cuyahoga v. Purdue
	Pharma, L.P., et al.
9	Case No. 17-0P-45005
10	City of Cleveland, Ohio vs. Purdue
	Pharma, L.P., et al.
11	Case No. 18-OP-45132
12	The County of Summit, Ohio,
4.0	et al. v. Purdue Pharma, L.P.,
13	et al.
14	Case No. 18-OP-45090
15	
16	
17	
<i>- ·</i>	Videotaped Deposition of Thomas Gilson, M.D.
18	
	Cleveland, Ohio
19	
	January 22, 2019
20	
	9:13 a.m.
21	
22	
23	
24	Reported by: Bonnie L. Russo
25	Job No. 3196188

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Videotaped Deposition of Thomas Gilson held at:	1 APPEARANCES (CONTINUED):	Page
. Latomped Deposition of Thomas Onson neit at.	On behalf of Johnson & Johnson and Janssen Pharmaceuticals, Inc	
	3 ERICA M JAMES, ESQ	
	TUCKER ELLIS, LLP 4 950 Main Avenue	
	Suite 1100	
	5 Cleveland, Ohio 44113 216-592-5000	
	6 erica james@tuckerellis com	
	7 On behalf of Walmart, Inc EDWARD M CARTER, ESQ	
	8 JONES DAY	
Climaco Wilcox Peca Tarantino & Garofoli, LPA	325 John H McConnell Boulevard 9 Suite 600	
	Cleveland, Ohio 43215	
55 Public Square	10 614-281-3906	
Suite 1950	emcarter@jonesday com	
Cleveland, Ohio 44113	On behalf of Endo Pharmaceuticals, Inc., Endo	
,	12 Health Solutions, Inc , Par Pharmaceuticals, Inc and Par Pharmaceutical Companies, Inc :	
	13 RUTH HARTMAN, ESQ	
	BAKER HOSTETLER 14 Key Tower, 127 Public Square	
Pursuant to Notice, when were present on behalf	Cleveland, Ohio 44114	
of the respective parties:	15 216-621-0200 rhartman@bakerlaw.com	
1 1	16	
	On behalf of AmerisourceBergen Drug 17 Corporation:	
	STÉVEN J BORANIAN, ESQ	
	18 LUKE PORTER, ESQ (Via Teleconference)	
	19 REED SMITH, LLP	
	101 Second Street, Suite 1800 20 San Francisco, CA 94105	
	415-659-5980	
	21 sboranian@reedsmith.com -and-	
	22 SANDRA K ZERRUSEN, ESQ	
	JACKSON KELLY, PLLC 23 50 South Main Street, Suite 201	
	Akron, Ohio 44308	
	24 330-252-9060 skzerrusen@jacksonkelly com	
	25	
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APPEARANCES:	1 APPEARANCES (CONTINUED):	
On behalf of Cuyahoga County:	2	
ALVATORE C BADALA, ESQ JAPOLI SHKOLNIK, PLLC	On behalf of McKesson Corporation:	
00 Broadhollow Road, Suite 305	3 ANNA Q. HAN, ESQ.	
Melville, New York 11747	(Via Teleconference)	
31-224-1133 badala@napolilaw com	4 COVINGTON & BURLING, LLP	
-and-	One CityCenter	
MARIA FLEMING, ESQ JAPOLI SHKOLNIC, PLLC	5 850 Tenth Street, N.W.	
00 Superior Avenue East, Suite 1300	Washington, D.C. 20001	
Cleveland, Ohio 44114	6 202-662-6000	
12-397-1000 nfleming@napolilaw.com	ahan@cov.com	
-and-	7	
HUNTER SHKOLNIK, ESQ	8	
Via Teleconference) JAPOLI SHKOLNIK, PLLC	9	
70 Munoz Rivera Avenue, Suite 201	Also Present:	
Iato Rey, Puerto Rico 00918 12-397-1000	10 Daniel Russo, Videographer	
unter@napolilaw com	11	
On babalf of Dundya Dhamas I. D.	12	
On behalf of Purdue Pharma, L P MARK CHEFFO, ESQ	13	
DECHERT, LLP	14	
Three Bryant Park 095 Avenue of the Americas	15	
New York, New York 10036	16	
12-698-3814	17	
INDSEY COHAN, ESQ		
DECHERT, LLP		
00 W 6th Street, Suite 2010 Austin, Texas 78701		
12-394-3000		
indsey cohan@dechert com	23	
	24	
nark cheffo@dechert com -and- IMDSEY COHAN, ESQ DECHERT, LLP 00 W 6th Street, Suite 2010 uustin, Texas 78701 12-394-3000	17 18 19 20 21 22	

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1	CONTENTS	1	firm of Veritext Legal Solutions, and I'm your
2 3	EXAMINATION OF THOMAS GILSON PAGE BY MR CHEFFO 10	2	videographer today. The court reporter is
4	BY MR BORANIAN 328	3	Bonnie Russo from the firm Veritext Legal
5	BY MR CARTER 373 BY MR BADALA 413	4	Solutions.
7	BY MS HARTMAN 418	5	Counsel and all present in the room
8 9		6	and everyone attending remotely will now state
10	EXHIBITS	7	their appearances and affiliations for the
11	Exhibit 1 Medical Examiner's Office 97	8	record, please.
12	Heroin Related Deaths in Cuyahoga County	9	MR. BADALA: Salvatore Badala for
13	Exhibit 2 E-Mail Chain 215	10	the Plaintiff Cuyahoga County.
14	dated 7-11-13 CUYAH 001710246-0247	11	MS. FLEMMING: Maria Flemming for
15	Exhibit 3 Article entitled 253	12	the Plaintiff Cuyahoga County.
16	"Associations of Nonmedical	13	MS. JAMES: Erica James, Tucker
16	Pain Reliever Use and Initiation of Heroin Use	14	Ellis, on behalf of Janssen Pharmaceuticals and
17	in the United States"	15	Johnson & Johnson.
18	PPLP004153119-53135	16	MS. HARTMAN: Ruth Hartman, Baker
.0	Exhibit 4 E-Mail Chain 269	17	Hostetler, on behalf of the Endo defendants.
19	dated 10-9-17	18	MR. CARTER: Ed Carter for WalMart.
20	CUYAH_001670519-0520	19	MS. ZERRUSEN: Sandy Zerrusen,
21	Exhibit 5 Spreadsheets 340	20	Jackson Kelly, on behalf of AmerisourceBergen.
21	Exhibit 6 Medical Examiner's Office 349	21	MR. BORANIAN: Steven Boranian from
22	Heroin/Fentanyl/Cocaine	22	Reed Smith for Defendant AmerisourceBergen.
23	Related Deaths in Cuyahoga County	23	MS. COHAN: Lindsey Cohan from
23	2018 December Update	24	Dechert, LLP, for the Purdue Defendants.
24 25	1-11-18 (Exhibits included with transcript)	25	MR. CHEFFO: And Mark Cheffo, also
23	(Exhibits included with transcript)		THE STEET ST THE HAMIN SHOTE, WISS
	D 7		D0
1	Page 7	1	
1 2	Page 7 PROCEEDINGS	1 2	for Dechert, for Purdue.
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3 (Pages 6 - 9)

	Page 10		Page 12
1	Page 10 MS. HARTMAN: And in response, the	1	Page 12 Q. Is that the the typical kind of
2	Endo defendants think they would suffer	2	hierarchy, the dep whoever serves as the
3	prejudice if they weren't allowed to be in the	3	deputy chief of staff serves as your
4	deposition.	4	supervisor?
5	EXAMINATION BY COUNSEL FOR DEFENDANT PURDUE	_	A. Yes. There's a deputy chief of
6	PHARMA, L.P.	6	staff, then the chief of staff, then the
7	BY MR. CHEFFO:	7	executive. That's the chain of command over
8	Q. Okay. Good morning, Dr. Gilson.	8	the medical examiner.
9	A. Morning, sir.	9	Q. And does the deputy chief of staff,
10	Q. You understand you're under oath	10	whoever sits in that chair, does he or she
11	today?	11	provide any type of evaluation or performance
12	A. Yes, I do.	12	review for you?
13	Q. Is there any reason why you can't	13	A. They have at different times but not
14	testify fully and accurately here today?	14	recently.
15	A. No.	15	Q. When was the last time?
16	Q. Can you please state your full name	16	A. I don't remember.
17	and your your professional title.	17	Q. Was it in the last two years?
18	A. Yes. My name is Dr. Thomas Gilson.	18	A. I don't believe so.
19	I am the Cuyahoga County medical examiner and	19	Q. How many times have you had a
20	director of the crime laboratory for Cuyahoga	20	performance review?
21	County.	21	A. I don't remember the exact number.
22	Q. And how long have you held those	22	Q. Is it more than one?
23	positions?	23	A. I don't remember.
24	A. Since 2011.	24	Q. Well, are they annual reviews?
25	Q. And have your duties and	25	A. Obviously not, I guess. So the
	Page 11		Page 13
1	responsibilities been substantially the same	1	Q. Are they supposed to be annual?
2	since 2011?	2	A. That's an HR function. I haven't
3	A. Yes, they have.	3	had an annual review.
4	Q. Okay. And who is your employer?	4	Q. Is it less than ten?
5	A. Cuyahoga County.	5	A. I have worked here since 2011. I've
6 7	Q. And who is your supervisor?	6	had at least one. So has to be less than ten.
1 '	A. Brandy Carney is the deputy chief of	7	I don't remember how many reviews there
8 9	staff for the safety units, which would include the medical examiner's office.	8	actually were though.
10		10	Q. You don't remember your reviews for the last six or seven years; you only remember
11		11	one?
12	A. Ms. Carney, yes.Q. Ms. Carney is strike that.	12	A. I remember one very clearly. But I
13	How long has Ms. Carney been your	13	it was right as I came on board. There may
14	supervisor?	14	have been another one after that. But the last
15	A. I don't remember. She was appointed	15	couple of years I know we've not had a an
16	sometime I believe in 2018.	16	a year-end review.
17	Q. Who was your supervisor prior to	17	Q. Can you remember more than two?
1 - '	, J J pap bit 1 200 pitot 00		A. I don't, sir.
18		18	A. 1 uon t, sn.
18 19	Ms. Carney?	18 19	· ·
	Ms. Carney? A. Frank Bova, B-O-V-A.		Q. So is that your best testimony that
19	Ms. Carney? A. Frank Bova, B-O-V-A.	19	
19 20	Ms. Carney? A. Frank Bova, B-O-V-A. Q. And was he your supervisor from 2011	19 20	Q. So is that your best testimony that you believe you have you've had two
19 20 21	Ms. Carney? A. Frank Bova, B-O-V-A. Q. And was he your supervisor from 2011 to 2018, or was there someone in between?	19 20 21 22	Q. So is that your best testimony that you believe you have you've had two performance reviews in the last seven or eight
19 20 21 22	Ms. Carney? A. Frank Bova, B-O-V-A. Q. And was he your supervisor from 2011 to 2018, or was there someone in between? A. I think he was the chief of staff	19 20 21 22	Q. So is that your best testimony that you believe you have you've had two performance reviews in the last seven or eight years?
19 20 21 22 23	Ms. Carney? A. Frank Bova, B-O-V-A. Q. And was he your supervisor from 2011 to 2018, or was there someone in between? A. I think he was the chief of staff when I came for safety. Oh, Noberta Collogne	19 20 21 22 23	Q. So is that your best testimony that you believe you have you've had two performance reviews in the last seven or eight years? MR. BADALA: Objection to form.

	D 14		D 1/
1	Page 14 The written annual review that you mention	1	Page 16 you do them on an annual basis with frequency?
2	or if that's what I understand your question to	2	A. Yes, I did.
$\frac{2}{3}$	be I don't remember the exact number, sir.	3	
4	I know there was at least one, I think two.	4	Q. And did you ever ask HR why they didn't give you the framework so you could
5	BY MR. CHEFFO:	5	review your people formally?
6	Q. And you can't remember any more than	6	A. I believe I have asked whether we
7	two?	7	would be doing annual reviews. And I don't
8	A. Not as I sit here today, no.	8	really know what the answer was to that, other
9	Q. And and with the two that you	9	than it wasn't going to be done for those two
10	remember, did you actually get paper some	10	years.
11	type of actual written summary or or	11	Q. Who'd you ask?
12	evaluation that was an adjunct to a formal	12	A. I don't remember.
13	in-person evaluation?	13	Q. Is there an HR person within your
14	A. With one of the year-end reviews I	14	department, or do you rely on an HR person
15	did get a piece of paper summarizing that. And	15	that's outside the department?
16	the other informal reviews I don't have any	16	A. Both. We have a liaison to our
17	paper with it, and I don't remember if they	17	office. And then obviously there's HR
18	were annual or if they were just things that	18	personnel who are more centrally based in the
19	were going on in the course of business that I	19	county.
20	would get feedback from my supervisor.	20	Q. And who'd you ask?
21	Q. Have you ever asked for a a	21	A. I don't remember, sir.
22	formal evaluation, other than the one time you	22	Q. There's somebody physically in your
23	got one?	23	building who's an HR person?
24	A. No, sir.	24	A. Yes.
25	Q. Do you review your team on an annual	25	Q. Did you ask him or her?
	Page 15		Page 17
1	Page 15 basis?	1	Page 17 A. I believe I did. But I I I
1 2	=	1 2	
	basis?		A. I believe I did. But I I I
2	basis? A. I have. As I say our HR our human resource department hasn't given us the guidance on that recently. So for the last two	2	A. I believe I did. But I I I want to be certain. But the person has changed some. So I originally had a person Radine Brown, who got promoted. And I would
2 3	basis? A. I have. As I say our HR our human resource department hasn't given us the guidance on that recently. So for the last two years, I believe we have not done that.	2 3	A. I believe I did. But I I I want to be certain. But the person has changed some. So I originally had a person Radine Brown, who got promoted. And I would frequently interact with her but still have a
2 3 4	basis? A. I have. As I say our HR our human resource department hasn't given us the guidance on that recently. So for the last two years, I believe we have not done that. Q. Meaning you haven't reviewed any of	2 3 4 5 6	A. I believe I did. But I I I want to be certain. But the person has changed some. So I originally had a person Radine Brown, who got promoted. And I would frequently interact with her but still have a different liaison in the building.
2 3 4 5 6 7	basis? A. I have. As I say our HR our human resource department hasn't given us the guidance on that recently. So for the last two years, I believe we have not done that. Q. Meaning you haven't reviewed any of your people for the last two years?	2 3 4 5 6 7	A. I believe I did. But I I I want to be certain. But the person has changed some. So I originally had a person Radine Brown, who got promoted. And I would frequently interact with her but still have a different liaison in the building. And my current person is Lynn
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	basis? A. I have. As I say our HR our human resource department hasn't given us the guidance on that recently. So for the last two years, I believe we have not done that. Q. Meaning you haven't reviewed any of your people for the last two years? A. Not in the setting as I understand what you're asking me. I review all my people pretty much top to bottom very frequently actually. Q. Yeah. I'm talking about a formal MR. BADALA: You understand THE WITNESS: Formal written review? MR. CHEFFO: Right. THE WITNESS: No, I have not done that. BY MR. CHEFFO: Q. And that's because HR didn't tell you that you needed to? A. They didn't give us a framework to operate in for a review. So I've done what, as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I believe I did. But I I I want to be certain. But the person has changed some. So I originally had a person Radine Brown, who got promoted. And I would frequently interact with her but still have a different liaison in the building. And my current person is Lynn Ferraro. And I I I believe I spoke with her about whether we would be doing reviews through an HR framework. I may have spoken to Radine though. Q. Do you think reviews are a good idea? MR. BADALA: Objection to form. THE WITNESS: Yes, I do. BY MR. CHEFFO: Q. And when do you believe you will review the people who work in your department? A. As I say, I review those people constantly. Q. I think A. The formal review process I think is

5 (Pages 14 - 17)

	Page 18		Page 20
1	Q. Do you remember my question?	1	Q. Anybody else?
2	A. I thought I answered your question,	2	A. Not that I remember.
3	sir.	3	Q. And how many times did you again,
4	Q. Do you remember what it was?	4	with the caveat I don't want you to tell me
5	A. Do you think reviews are a good	5	anything you talked to with them, but how many
6	idea.	6	times did you meet with with them or talk
7	Q. No.	7	with them?
8	I said when when do you expect to	8	A. We spoke on Friday, and we spoke
9	review your people?	9	yesterday.
10	MR. BADALA: Objection to form.	10	Q. And how long was each session?
11	THE WITNESS: I don't have a	11	A. I don't remember the Friday.
12	specific time framework for that. I have four	12	Probably between one to two hours and yesterday
13	direct reports. I see them on a weekly basis	13	was about two and a half hours.
14	and provide feedback to them. I walk the	14	Q. And was anyone present, either in
15	office at least once to twice a week and talk	15	person or on the phone, other than the three
16	to other employees as well.	16	the two lawyers you mentioned and yourself?
17	MR. CHEFFO: Okay. Move to strike.	17	A. Not that I remember, no. I mean I'm
18	BY MR. CHEFFO:	18	I was in my office by myself. So nobody on
19	Q. When do you expect issue formal	19	my end.
20	reviews, if ever, of the people who report to	20	Q. Okay. And and the only documents
21	you?	21	you reviewed were publicly available documents
22	MR. BADALA: Objection to form.	22	on the web site in connection with your your
23	Asked and answered.	23	deposition; is that right?
24	THE WITNESS: I'm not sure what	24	A. Yes.
25	you're meaning by "formal reviews." I consider	25	Q. Do you know what was collected and
	Page 19		Page 21
1	reviews my interactions with the staff.	1	produced from your department in connection
2	BY MR. CHEFFO:	2	with this litigation?
3	Q. Annual performance reviews.	3	A. In a general way. I don't know
4	MR. BADALA: Objection to form.	4	every document that came.
5	It's a different question.	5	0 1111
-)	Q. What was what generally was
6	THE WITNESS: Annual performance	6	Q. What was what generally was collected and produced?
6 7	-	6	
	THE WITNESS: Annual performance	6	collected and produced?
7	THE WITNESS: Annual performance reviews, I don't have a framework for them this	6 s 7	collected and produced? A. I think our public documents and
7 8	THE WITNESS: Annual performance reviews, I don't have a framework for them this year. So I I don't know if we will receive that guidance to do so. BY MR. CHEFFO:	6 s 7 8	collected and produced? A. I think our public documents and case files around the decedents who died in the opioid epidemic. Q. Anything else?
7 8 9	THE WITNESS: Annual performance reviews, I don't have a framework for them this year. So I I don't know if we will receive that guidance to do so.	6 s 7 8 9	collected and produced? A. I think our public documents and case files around the decedents who died in the opioid epidemic.
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6 (Pages 18 - 21)

1	Page 22		Page 24
1	"the department," or do you say the medical	1	complaint in this case?
2	examiner's office?	2	A. No, I did not.
3	What how do you	3	Q. Did you see it before it was filed?
4	A. I call it the medical examiner's	4	A. No, sir.
5	office.	5	Q. Did you have you assisted in the
6	Q. M ME's office?	6	preparation of any discovery responses in this
7	A. Or the office.	7	case?
8	Q. Okay.	8	A. Not directly. I mean if our
9	A. And crime laboratory. They're both	9	information was used in those responses, I
10	under me, but they're separate functions.	10	obviously oversee the agency that generates a
11	Q. Okay. And did you do anything else	11	large amount of data. But the actual
12	other than review the documents you've told us		preparation of those documents I would have to
13	about and speak with your lawyers to prepare	13	say no, I did not.
14	for the deposition?	14	Q. Okay. So in other words, no one
15	A. Maybe read some articles that I had	15	sent you a copy of an interrogatory response
16	written on the opioid crisis. I think	16	and said, "Hey, Doctor, can you just take a
17	that's that's everything.	17	look at this or help fill in the blanks"?
18	Q. Did you speak with anybody else?	18	A. No, sir.
19	A. Not in preparation for today, no.	19	Q. Are you aware of anybody on your
20	Q. You've been deposed before; is that	20	staff who did that?
21	right?	21	A. No, sir.
22	A. In this litigation or in general?	22	Q. As is typical, I'm going to try and
23	Q. In general.	23	see if I can start with a few kind of broad
24	A. Yes, I have.	24	concepts and see where you have some knowledge
25	Q. And in this litigation, you were	25	and where you may not. So I'm going to ask you
	Page 23		Page 25
			1 age 25
1	deposed last	1	some broad questions and see if you can tell me
1 2		1 2	-
	deposed last		some broad questions and see if you can tell me
2	deposed last A. Yes.	2	some broad questions and see if you can tell me what what you think the responses are.
2 3	deposed last A. Yes. Q week.	2 3	some broad questions and see if you can tell me what what you think the responses are. So do you consider yourself to be an
2 3 4	deposed last A. Yes. Q week. A. And it was also last week Q. Right. A on Monday.	2 3 4	some broad questions and see if you can tell me what what you think the responses are. So do you consider yourself to be an expert in opioids?
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	Page 26		Page 28
1	A. No, sir. I'm not.	1	Q. Got it.
2	Q. Are you an FDA [sic] in in	2	Do you hold ourself out as an expert
3	labeling of pharmaceutical medicines?	3	in epidemiology; yes or no?
4	A. I I'm sorry. I missed the	4	A. I I don't think I can answer that
5	beginning of your question.	5	as a I I don't there's areas of
6	Q. Are you an expert in the labeling of	6	epidemiology with which I am familiar and areas
7	pharmaceutical medicines?	7	with which I am not.
8	A. Not something I have expertise in,	8	Q. So tell me
9	sir.	9	A. So I would say, if we're talking
10	Q. And the rules and regulations for	10	about the entire field of epidemiology, I don't
11	pharmaceutical companies that are promulgated	11	carry a degree in that field, and I don't have
12	by the FDA, are you an expert in that area?	12	specialized training in it beyond my experience
13	A. No. I do not have expert in that	13	as a medical examiner.
14	area.	14	Q. What, if any, areas of epidemiology
15	Q. Are you an expert in toxicology?	15	do you hold yourself out as an expert in?
16	A. As part of my training, I have	16	And to the extent that you do,
17	information in toxicology. I am not a	17	explain the basis of your expertise.
18	toxicologist. I have expertise as a forensic	18	A. I think I am a public health
19	pathologist in interpreting toxicology.	19	officer. So I would collect and analyze data
20		20	as it would relate to different public health
20		20	issues.
22	more than one toxicologist in your office?	21 22	
23	A. Our office has a toxicology	23	Q. So you're an expert in what with respect to epidemiology?
24	laboratory. It's staffed by a chief toxicologist, who is a Ph.D. level. I have a	24	
25	supervisor who has extensive experience. I	25	How would you characterize it? A. Data generation and analysis.
23		23	
1	Page 27 have multiple scientists at different levels.	1	Q. In all fields?
2	I believe the total number of	2	A. All fields of?
3	employees in our toxicology laboratory is nine.		71. 7111 Helds of:
)		1 3	$O = \Delta n v thing$
	2 0	3	Q. Anything.
4	I consider all of them, to a greater or lesser	4	A. Epidemiology?
4 5	I consider all of them, to a greater or lesser extent, to be toxicologists. But the chief	4 5	A. Epidemiology? MR. BADALA: Objection to form.
4 5 6	I consider all of them, to a greater or lesser extent, to be toxicologists. But the chief toxicologist would be the Ph.Dlevel person,	4 5 6	A. Epidemiology? MR. BADALA: Objection to form. THE WITNESS: I'm can you say
4 5 6 7	I consider all of them, to a greater or lesser extent, to be toxicologists. But the chief toxicologist would be the Ph.Dlevel person, Dr. Apollonio.	4 5 6 7	A. Epidemiology? MR. BADALA: Objection to form. THE WITNESS: I'm can you say your question.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I consider all of them, to a greater or lesser extent, to be toxicologists. But the chief toxicologist would be the Ph.Dlevel person, Dr. Apollonio. Q. Is that a he or she? A. He. Q. And what was his first name? A. Luigino. Q. Okay. And are you an expert in epidemiology? A. Again, I have familiarity with epidemiology. I do not have formal training in epidemiology though. Q. So I guess the answer is no, you don't hold yourself out as an expert in epidemiology. Is that fair? A. I think, as a medical examiner, I have familiarity with public health issues. In	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Epidemiology? MR. BADALA: Objection to form. THE WITNESS: I'm can you say your question. BY MR. CHEFFO: Q. You say you're an A. I don't fully understand. Q. You said you're an expert in data generation, right, in the context of epidemiology? A. I think I have advanced knowledge there, yes. Q. Is that related in all areas of epidemiology or just as it relates to the functions of a a medical examiner? A. As it relates to my duties as a medical examiner and public health officer. Q. Have you ever published in the field of epidemiology?

8 (Pages 26 - 29)

1	Page 30	,	Page 32
1	So to that extent, I think forensics overlaps	1	the level of some really high-level law
2	with epidemiology.	2	enforcement person on that.
3	Q. Are you an expert in the marketing	3	Q. And and where where did you
4	of prescription medicines?	4	get your knowledge about drug cartels?
5	A. No, sir.	5	A. Primarily discussions with law
6	Q. Are you an expert in the	6	enforcement. My independent reading as well.
7	distribution of pharmaceutical medicines?	7	Q. And what do you know about them, and
8	A. No, sir.	8	how do they intersect with your work as a
9	Q. Are you an expert in in	9	medical examiner?
10	pharmacies?	10	MR. BADALA: Objection to form.
11	MR. BADALA: Objection to form.	11	THE WITNESS: Well, the drug
12	THE WITNESS: I'm not sure. If you	12	cartels, you know, are based in different parts
13	can be more specific in your question.	13	of the world, as you know. And when we were
14	BY MR. CHEFFO:	14	talking back in the heroin phase of the opioid
15	Q. Okay. Are you an expert in in	15	crisis, I became familiar with and again,
16	pain management?	16	these were discussions with law enforcement
17	A. No, sir.	17	drug cartels that would have been based in
18	Q. Are you an expert in addiction?	18	Mexico who were considered to be responsible
19	A. That's not within the scope of what	19	for the large influx of heroin into especially
20	I practice. So I'd have to say that I don't	20	the middle part of the country.
21	really carry any formal training in that or	21	There were drug cartels, again,
22	expertise.	22	which I was, again, told of in discussions with
23	Q. Are you an expert in the treatment	23	law enforcement, in Afghanistan and other parts
24	of chronic pain?	24	of the world who also distribute opioids.
25	A. Again, I have familiarity from my	25	There are drug cartels in South
	Page 31		Page 33
1	medical education, but I wouldn't label that as	1	America. The Medayee cartel is one that comes
2	expertise. I don't treated those kind of	2	to mind, which was a drug cartel that was very
3	patients. So I don't have experience with it.	3	active in the distribution of cocaine.
4	And other than my general knowledge	4	There are I think, you know, bases
5	as a medical practitioner, I wouldn't say that	5	in the United States, as understand it, with a
6	I have specific, you know, formal training or	6	hierarchy going back to these cartels. And
7	experience in that.	7	that's my understanding of them.
8	Q. Are you an expert in the sales	8	BY MR. CHEFFO:
9	practices of pharmaceutical companies?	9	Q. And let let's let's focus for
10	MR. BADALA: Objection to form.	10	my and and thank. You you you
11 12	THE WITNESS: I just have some	11	answered my question. But I have a more
	familiarity with that. But no, I would not	12	specific question.
13 14	claim expertise in that area. BY MR. CHEFFO:	13 14	With respect to to Cuyahoga County, what is the impact of drug cartels
15		15	currently in connection with illicit drug use
16	Q. Are you an expert in connection with the DEA's rules and regulations?	16	in Cuyahoga County?
17	MR. BADALA: Objection to form.	17	A. I - I couldn't be more specific
18		18	about it, other than my discussions with law
		10	· ·
10	THE WITNESS: Pardon me for a	10	enforcement would indicate that the
19	second.	19	enforcement would indicate that the
20	second. No, I am not.	20	distribution of drugs in the United States in
20 21	second. No, I am not. BY MR. CHEFFO:	20 21	distribution of drugs in the United States in general comes through large cartels and then
20 21 22	second. No, I am not. BY MR. CHEFFO: Q. Are you an expert in in drug	20 21 22	distribution of drugs in the United States in general comes through large cartels and then will filter down to a place like Cuyahoga
20 21 22 23	second. No, I am not. BY MR. CHEFFO: Q. Are you an expert in in drug cartels?	20 21 22 23	distribution of drugs in the United States in general comes through large cartels and then will filter down to a place like Cuyahoga County. And that's probably as specific as I
20 21 22	second. No, I am not. BY MR. CHEFFO: Q. Are you an expert in in drug	20 21 22	distribution of drugs in the United States in general comes through large cartels and then will filter down to a place like Cuyahoga

Page 34 Page 36 1 it -- pardon me -- the cartels have some 1 Did I get that correct? 2 influence on the distribution of drugs here at 2 Yes. A. 3 3 a local level. Q. And -- and what did you mean by Q. And when you say the distribution of 4 4 that? 5 drugs, am I correct that you're talking about 5 A. Well, the way I -- I see the 6 the distribution of illegal or illicit drugs? 6 writings on the opioid crisis now, and from 7 A. Again, I don't have the specific 7 CDC, which I consider, you know, our premier knowledge whether they're distributing or 8 public health organization, we talk about the 8 9 redeploying, you know, legitimate 9 opioid crisis in a global way with distinct 10 pharmaceutical products as well as illegal 10 phases that would include the opioid pain drugs. I don't know for sure. reliever phase, the heroin phase, and the 11 11 12 fentanyl and the analogs of fentanyl phase. Q. Right. 12 13 But if a drug cartel even were to 13 Q. Are we in the fentanyl and analog of 14 get its hands on what would otherwise have been fentanyl phase right now? 14 15 prescription medicines, that would be illicit 15 MR. BADALA: Objection to form. distribution, wouldn't it? THE WITNESS: I would say that 16 16 17 A. Yes. 17 that's a designation. But I -- I would say, 18 Q. I mean they're not -- they're not 18 you know, as a caution to that, the number of 19 licensed to sell medicines to people in --19 people who die of heroin overdoses did not drop 20 20 to zero, nor did the number of people who die A. No. 21 21 Q. -- the county, are they? of opioid pain reliever. The prescription pain 22 A. Of course not. I think -- sure. 22 medications dropped to zero. 23 23 Q. So anything that they would So I think it's a continuum. But in 24 distribute or put into the system that winds up 24 terms of what's dominating the picture right 25 in Cuyahogi [sic] -- Cuyahoga would be, by 25 now for mortality, we are in the fentanyl Page 35 Page 37 1 definition, illegal. phase. Because fentanyl has been responsible 1 2 A. Right. It wouldn't be an illicit for so many more deaths in Cuyahoga County and 2 3 substance necessarily like heroin, but it would 3 also nationally. be illegal for them to be distributing it 4 4 BY MR. CHEFFO: 5 because they're not appropriately the people to 5 Q. Well, you told me that there were 6 be doing that. three phase, as you understood it, right? 7 Q. And you're aware that they 7 One was the opioid phase, one was --8 distribute both illicit substances like 8 and I take it you mean by opioid prescription 9 synthetic fentanyl and carfentanil and -- and 9 phase? 10 heroin as well as could divert what would 10 A. Right. Yeah. 11 otherwise have been lawful medicines. Q. And then there was the heroin phase, 11 12 MR. BADALA: Object -- objection to 12 and then there was the fentanyl and fentanyl 13 analog phase. form. 13 14 THE WITNESS: In a general way, yes. Did I get that right? 14 15 It's a -- you know, I don't have the specific 15 A. That's my understanding of what CDC 16 law enforcement background to say absolute says. And that's my understanding of the 16 17 certainty on that. But I would say, in a 17 epidemic, yes. general way, the cartels or distributors of 18 18 Q. And what -- for what years did those 19 illegal substances would have access to both, phases exist? 19 20 is my understanding of that. 20 MR. BADALA: Objection to form. 21 BY MR. CHEFFO: 21 THE WITNESS: I don't know that 22 Q. Correct me if I'm wrong, but I -- I people would be dogmatic about, you know, there 22 23 tried to write this down, Doctor. I think you was an overlap in them. The opioid pain 23 24 said "during the heroin phase of the drug 24 reliever phase I think people would now look 25 crisis." back and say, you know, 1990s into maybe about 25

1	Page 38	1	Page 40
1	2010. Heroin phase would be over about 2010 to	1	believe in 2017, which is the last year we have
2	2014. And as I understand, you know, the	2	full data for, we had 24 overdoses that were
3	public health thinking on that, the fentanyl	3	related to methamphetamine, either alone or in
4	phase would be taking from taking off from	4	combination, but mostly in combination.
5	there.	5	And in terms of, you know,
6	Again, with that caveat that they	6	comparability, it's certainly dwarfed by the
7	blend into each other, and they're not	7	opioids. I don't think anybody likes to see
8	necessarily one stopped and another one began	8	any of these drugs in our community.
9	so much as another drug starts to take	9	But it isn't absent completely from
10	increased prominence.	10	our community. And, in fact, about a year ago
11	BY MR. CHEFFO:	11	we noticed an increase in the number of
12	Q. Did heroin come into being in the	12	seizures of methamphetamine in our county.
13	in prior to the 1990s?	13	That hasn't really sustained itself over the
14	A. Heroin was first synthesized I think	14	course of 2018, but it hasn't dropped back down
15	back in 1870-something.	15	to zero.
16	Q. Has there been a problem in Cuyahoga	16	So it's present here. I wouldn't
17	and other municipalities in this state and	17	say it's at, you know, epidemic proportions.
18	country with heroin prior to the 1990s?	18	Q. Has it ever been an epidemic?
19	MR. BADALA: Objection to form.	19	MR. BADALA: Objection to form.
20	THE WITNESS: I can't speak to	20	THE WITNESS: In Cuyahoga County,
21	Cuyahoga County with certainty. Other places	21	not to my knowledge.
22	that I've worked have had trouble with heroin.	22	BY MR. CHEFFO:
23	BY MR. CHEFFO:	23	Q. Have you looked at the data?
24	Q. Prior to the 1990s?	24	A. I have looked back at different drug
25	A. Prior to the 1990s, yes.	25	overdose data back to 2006 and have not really
	Page 39		Page 41
1	Q. And is is the same true for	1	appreciated methamphetamine being a major
2	illicit fentanyl, that there was a problem with	2	contributor to drug overdose mortality.
3	the abuse of illicit fentanyl prior to the	3	Q. So your your knowledge goes back
4	1990s?	4	to 2006, your personal knowledge?
5	A. There were I I don't know	5	A. That's the data I've looked back at.
6	that, actually.	6	Q. And methamphetamine is not a a
7	Q. Okay. What about	7	lawful product, is it?
8	A. I'm not familiar with one.	8	A. I don't believe so. Amphetamine
9	Q. What about methamphetamines; was	9	is it's a it can be used as a diet
10	there a problem with meth prior to the 1990s;	10	suppressant or for other things. But
11	do you know?	11	methamphetamine I don't think is anything that
12	MR. BADALA: Objection to form.	12	can be lawfully prescribed.
13	THE WITNESS: I'm aware of issues	13	Q. Same for heroin, right?
14	with amphetamine that go back into the '50s and	14	A. Right. Heroin is a what we call
15	'60s. Methamphetamine, I don't know if that	15	Schedule 1 drug, which means it has no
1	1		
16	was the specific amphetamine or if it was just	16	legitimate medical use.
16	-	16 17	legitimate medical use. Q. What are the Schedule 1 drugs that
	was the specific amphetamine or if it was just		
17	was the specific amphetamine or if it was just the drug amphetamine. But that class of	17	Q. What are the Schedule 1 drugs that
17 18	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to	17 18	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County?
17 18 19	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to 1990.	17 18 19	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County? MR. BADALA: Objection to form.
17 18 19 20	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to 1990. BY MR. CHEFFO:	17 18 19 20	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County? MR. BADALA: Objection to form. THE WITNESS: I'd have to say heroin
17 18 19 20 21	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to 1990. BY MR. CHEFFO: Q. Is there a current problem in	17 18 19 20 21	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County? MR. BADALA: Objection to form. THE WITNESS: I'd have to say heroin is the one I know best. I don't know all of
17 18 19 20 21 22	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to 1990. BY MR. CHEFFO: Q. Is there a current problem in Cuyahoga County with the use of	17 18 19 20 21 22	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County? MR. BADALA: Objection to form. THE WITNESS: I'd have to say heroin is the one I know best. I don't know all of the drugs that are Schedule 1. And I couldn't
17 18 19 20 21 22 23	was the specific amphetamine or if it was just the drug amphetamine. But that class of compounds, there were issues with them prior to 1990. BY MR. CHEFFO: Q. Is there a current problem in Cuyahoga County with the use of methamphetamines?	17 18 19 20 21 22 23	Q. What are the Schedule 1 drugs that are abused in Cuyahoga County? MR. BADALA: Objection to form. THE WITNESS: I'd have to say heroin is the one I know best. I don't know all of the drugs that are Schedule 1. And I couldn't tell you for certain every drug that has been

1	Page 42	1	Page 44
1	BY MR. CHEFFO:	1	in 2016 and 2017 is related to mixtures of
2	Q. Meth is another one, right?	2	cocaine with fentanyl. BY MR. CHEFFO:
3	A. Again, if it is Schedule 1, whichQ. What about cocaine?	3 4	
4	~	5	Q. So you're you're saying that there's more deaths based on cocaine use
5	A. Cocaine is a drug that has a defined medical use. It's used as a topical anesthetic	6	because there's a combination of fentanyl?
6 7	in certain types of surgery. Ear, nose and	7	Is that am I understanding that
8	throat surgery. It can be used as a topical	8	right?
9	anesthetic for closing lacerations and wounds.	9	A. No. What I'm saying is there's a
10	So it has a legitimate medical use, so	10	there are deaths of by cocaine without the
11	therefore, not Schedule 1.	11	presence of fentanyl. But the elevations that
12	Q. Is is there a a cocaine	12	we saw in 2016, after at least a decade of
13	problem currently in Cuyahoga County?	13	stability, those were driven by fentanyl.
14	A. There is an elevation in cocaine	14	Q. Is there a cocaine epidemic in
15	deaths in Cuyahoga County. Our analysis looks	15	Cuyahoga County today?
16	at this as really a byproduct largely of the	16	MR. BADALA: Objection to form.
17	the the rise in cocaine deaths is a	17	THE WITNESS: There are more deaths
18	byproduct of the opioid crisis.	18	from cocaine. But again, I have to see it in a
19	Q. So is it really your testimony that	19	bigger context.
20	everybody who has and overdose from cocaine,	20	BY MR. CHEFFO:
21	that's somehow related to opioids?	21	Q. Is there a cocaine crisis in
22	MR. BADALA: Objection to form.	22	Cuyahoga County?
23	BY MR. CHEFFO:	23	MR. BADALA: Objection to form.
24	Q. Is that your testimony?	24	THE WITNESS: Well, I think, you
25	A. Oh, I'm sorry. No. That wouldn't	25	know, there's concerns about that rise. But
	Page 43		Page 45
1			rage 43
1	be my testimony at all.	1	they're tied, as I say, back to the fentanyl.
1 2		1 2	
	be my testimony at all.		they're tied, as I say, back to the fentanyl.
2	be my testimony at all. Q. Okay. Cocaine	2	they're tied, as I say, back to the fentanyl. BY MR. CHEFFO:
2 3	be my testimony at all. Q. Okay. Cocaine A. If I could finish Q. No. I I MR. BADALA: You can finish your	2 3 4 5	they're tied, as I say, back to the fentanyl. BY MR. CHEFFO: Q. Is there a cocaine crisis in Cuyahoga County? MR. BADALA: Objection to form.
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	Page 46		Page 48
1	BY MR. CHEFFO:	1	MR. BADALA: Objection to form.
2	Q. And is that a crisis; yes or no?	2	Misstates his testimony.
3	A. I wouldn't like it. I I don't	3	THE WITNESS: No. That's not what I
4	know you know, as I understand a crisis, it	4	said, sir.
5	overwhelms the ability of a county to respond	5	BY MR. CHEFFO:
6	to it. And those responses, it wasn't	6	Q. Was there a crack cocaine crisis in
7	worsening over	7	the United States back in the '80s?
8	Q. So	8	MR. BADALA: Objection to form.
9	A that time frame. So using that,	9	THE WITNESS: Yes, there was.
10	you know, understanding of the crisis, I'd have	10	BY MR. CHEFFO:
11	to say I it's not good. But I wouldn't say	11	Q. Are you aware of any connection
12	that it acutely worsened into a crisis phase.	12	between the crack cocaine crisis and opioids?
13	Q. Okay. So there has never in your	13	MR. BADALA: Objection to form.
14	in your estimation, there has never been a	14	THE WITNESS: They're both illicit
15	crisis for cocaine use in Cuyahoga County?	15	substances. I don't know.
16	MR. BADALA: Objection to form.	16	BY MR. CHEFFO:
17	BY MR. CHEFFO:	17	Q. Are you aware of any connection
18	Q. Is that right?	18	between the two?
19	A. No. That wouldn't be my impression.	19	MR. BADALA: Same objection.
20	Q. Has there ever been a crisis of	20	THE WITNESS: I mean I I I
21	cocaine use in Cuyahoga County?	21	don't know I don't know.
22	MR. BADALA: Objection to form.	22	BY MR. CHEFFO:
23	THE WITNESS: I don't know. I mean	23	Q. Are you an expert in well, strike
24	Ohio had an instance in the 1980s and '90s with	24	that.
25	crack cocaine that was considered a crisis.	25	Do you know what the OARRS database
	Page 47		Page 49
1	And I wasn't here, and I don't really have	1	is?
2	firsthand knowledge of that.	2	A. Yes, I do.
3	But, you know, it was in other	3	Q. What's it?
4	jurisdictions that we're seeing cocaine	4	A. It is a prescription drug monitoring
5	and le acceine anisis anidamica. Calida		
	crack cocaine crisis epidemics. So it's	5	program for the State of Ohio. OARRS is an
6	plausible.	5 6	program for the State of Ohio. OARRS is an acronym. It stands for Ohio Automated Rx or
6 7	plausible. BY MR. CHEFFO:		acronym. It stands for Ohio Automated Rx or prescription Reporting System.
6 7 8	plausible. BY MR. CHEFFO: Q. Was	6	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the
6 7 8 9	plausible. BY MR. CHEFFO: Q. Was A. But I don't have first knowledge.	6 7 8 9	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the information from prescribing of controls
6 7 8 9 10	plausible. BY MR. CHEFFO: Q. Was A. But I don't have first knowledge. Q. You you don't know.	6 7 8 9 10	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the information from prescribing of controls substances around the state and makes that
6 7 8 9 10 11	plausible. BY MR. CHEFFO: Q. Was A. But I don't have first knowledge. Q. You you don't know. A. I can't testify to that.	6 7 8 9 10 11	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the information from prescribing of controls substances around the state and makes that available to different parties for their use.
6 7 8 9 10 11 12	plausible. BY MR. CHEFFO: Q. Was A. But I don't have first knowledge. Q. You you don't know. A. I can't testify to that. Q. Okay. And was crack cocaine ever	6 7 8 9 10 11 12	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the information from prescribing of controls substances around the state and makes that available to different parties for their use. Q. So and there are certain rules
6 7 8 9 10 11 12 13	plausible. BY MR. CHEFFO: Q. Was A. But I don't have first knowledge. Q. You you don't know. A. I can't testify to that. Q. Okay. And was crack cocaine ever marketed by any pharmaceutical company?	6 7 8 9 10 11 12 13	acronym. It stands for Ohio Automated Rx or prescription Reporting System. And what it collects is the information from prescribing of controls substances around the state and makes that available to different parties for their use. Q. So and there are certain rules that govern how and when healthcare providers
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1	Page 50		Page 52
1	expert in the rules and operation and	1	office, either on computer or some other
2	regulations of OARRS?	2	fashion?
3	A. No. I have familiarity with OARRS.	3	A. Yes. There's a web site for OARRS.
4	But I didn't write the legislation. I wouldn't	4	You have a user name and a password, like my
5	consider myself all-knowing about it either.	5	other web sites. I have those. And I can
6	Q. Do you assessors from time to time	6	access that.
7	in your professional capacity?	7	Or, because of my designation, I can
8	A. Yes. We do as an office, and I have	8	have delegates access that through me.
9	individually as well.	9	Q. And I'm just trying to find out,
10	Q. How frequently do you assessors, and	10	Doctor, your own personal use, if any.
11	in what circumstances?	11	So in other words, do you sit at a
12	MR. BADALA: Objection to form.	12	terminal ever and look at OARRS database and
13	THE WITNESS: We as an office I	13	conduct searches or queries; do you ask someone
14	would have to say and again, I have an	14	else to do that; or do you never do it in
15	account in OARRS and delegates who would use	15	connection with your autopsies?
16	it. We use that information very frequently.	16	I'm trying to find out when you, Dr.
17	Most recently we've used it to go	17	Gilson, do an autopsy, under what
18	back and look at the individuals who overdosed	18	circumstances, if any, do you either access
19	in 2016 and early 2017 on fentanyl. We've used	19	OARRS or do you ask someone to access OARRS on
20	it to look at individuals who've overdosed on	20	your behalf for a specific case?
21	heroin as well.	21	MR. BADALA: Objection to form.
22	BY MR. CHEFFO:	22	THE WITNESS: I ask my designees to
23	Q. Do you conduct autopsies personally?	23	access it for drug overdose cases, my own and
24	A. Yes, I do.	24	others. I access it in my own cases if there's
25	Q. Do you in connection with your	25	some pressing issue that I feel needs a more
1	Page 51	1	Page 53
1	own personal work as a medical examiner in	1	rapid turnaround time. BY MR. CHEFFO:
2 3	connection with an autopsy, in what circumstances, if any, do you consult OARRS?	2	BY MR. CHEFFU:
	circuitstances, if any, do you consult OAKKS?	2	O Is it accessed by you or on your
		3	Q. Is it accessed by you or on your
4	A. We have used the OARRS database to	4	behalf in connection with every autopsy you do
4 5	A. We have used the OARRS database to look back on the drug overdose deaths that have	4 5	behalf in connection with every autopsy you do in connection with a drug overdose case?
4 5 6	A. We have used the OARRS database to look back on the drug overdose deaths that have come through our county to look for	4 5 6	behalf in connection with every autopsy you do in connection with a drug overdose case? MR. BADALA: Objection to form.
4 5 6 7	A. We have used the OARRS database to look back on the drug overdose deaths that have come through our county to look for relationships there between prescribed	4 5 6 7	behalf in connection with every autopsy you do in connection with a drug overdose case? MR. BADALA: Objection to form. THE WITNESS: That's our ideal.
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	Page 54	1	Page 56
1	since I was granted access to try to facilitate	1	So OARRS will tell you if someone
2	the use of it, to make it easier to access.	2	received a prescription for a scheduled
3	But it's not a time consuming	3	medicine; is that right?
4	process sometimes to find out if somebody has	4	A. Right. A controlled substance.
5	no file there.	5	They have to be entered into OARRS.
6	Q. Right.	6	Q. And what what is a what is a
7	And that and why what are the	7	definition of a controlled substance that would
8	reasons why you would access OARRS in	8	show up in OARRS?
9	connection with an autopsy?	9	A. The opioid, benzodiazepines. Those
10	A. To document a relationship between	10	are the big ones.
11	somebody who died of a drug overdose and their	11	Q. Anything else?
12	prescribing history.	12	A. Amphetamine.
13	Q. What would OARRS tell you or could	13	Q. So it's not just opioids, is it?
14	it tell you?	14	A. Not just opioids. That's right.
15	A. It would tell us whether or not, in	15	Q. So it's benzodiazepines,
16	their lookback period, that person had received	16	amphetamines, opioids.
17	prescriptions for controlled substances.	17	What else? Anything else?
18	Q. Anything else?	18	A. I don't know everything that's in
19	A. It would give us information about	19	the database, to be honest.
20	prescriber, would give us information about the	20	Q. If they had the topical well,
21	pharmacy where they were filled.	21	strike that. That's probably used for surgery.
22	Q. Does it tell you whether they had an	22	Cocaine you mentioned earlier.
23	addiction problem?	23	Would that show up in the in the
24	MR. BADALA: Objection to form.	24	OARRS database?
25	THE WITNESS: That's not part of the	25	A. I never have seen it. I don't know.
	Page 55		Page 57
1	OARRS database.	1	Q. Anything else you can think of,
2	OARRS database. BY MR. CHEFFO:	2	Q. Anything else you can think of, other than benzodiazepines, amphetamines and
2 3	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were	2 3	Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids?
2 3 4	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction?	2 3 4	Q. Anything else you can think of,other than benzodiazepines, amphetamines and opioids?A. There's other drugs that are like
2 3 4 5	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction? A. We wouldn't glean that information	2 3 4 5	 Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids? A. There's other drugs that are like benzodiazepines, like zolpidem, which aren't
2 3 4 5 6	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction? A. We wouldn't glean that information from the OARRS database. We do look for it	2 3 4 5 6	 Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids? A. There's other drugs that are like benzodiazepines, like zolpidem, which aren't technically in that family. They're also in
2 3 4 5 6 7	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction? A. We wouldn't glean that information from the OARRS database. We do look for it through our addiction alcohol and drug	2 3 4 5 6 7	Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids? A. There's other drugs that are like benzodiazepines, like zolpidem, which aren't technically in that family. They're also in OARRS.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction? A. We wouldn't glean that information from the OARRS database. We do look for it through our addiction alcohol and drug addiction mental health services. Or when my scene investigators respond to a death scene, they will specifically see if the person has received treatment. Because the public facilities represent a portion of our treatment capacity, and then there are private facilities which don't have to report. But we still want to capture that information for public health purposes. Q. And I'd like to just just focus for a minute on OARRS. Okay. I'm just going to ask you some specific questions. We may talk about other things at the office. I'm sure we will today. But I want to just have an understanding, based on on on your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids? A. There's other drugs that are like benzodiazepines, like zolpidem, which aren't technically in that family. They're also in OARRS. Q. Okay. So OARRS will tell you if someone received or was prescribed a controlled substance; is that right? A. Yes. Q. It won't tell you whether they were addicted to that substance, will it? A. No. It can't it won't Q. It won't A capture that information. Q. It won't tell you if they were ever received substance abuse treatment or counseling, will it? A. No. It's not in that database. Q. It won't tell you if they were had a drug problem prior to receiving the prescription, will it?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	OARRS database. BY MR. CHEFFO: Q. Does it tell you whether they were ever treated for addiction? A. We wouldn't glean that information from the OARRS database. We do look for it through our addiction alcohol and drug addiction mental health services. Or when my scene investigators respond to a death scene, they will specifically see if the person has received treatment. Because the public facilities represent a portion of our treatment capacity, and then there are private facilities which don't have to report. But we still want to capture that information for public health purposes. Q. And I'd like to just just focus for a minute on OARRS. Okay. I'm just going to ask you some specific questions. We may talk about other things at the office. I'm sure we will today. But I want to just have an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Anything else you can think of, other than benzodiazepines, amphetamines and opioids? A. There's other drugs that are like benzodiazepines, like zolpidem, which aren't technically in that family. They're also in OARRS. Q. Okay. So OARRS will tell you if someone received or was prescribed a controlled substance; is that right? A. Yes. Q. It won't tell you whether they were addicted to that substance, will it? A. No. It can't it won't Q. It won't A capture that information. Q. It won't tell you if they were ever received substance abuse treatment or counseling, will it? A. No. It's not in that database. Q. It won't tell you if they were had a drug problem prior to receiving the

1	Page 58 we've used OARRS for is to document doctor	1	Page 60 THE WITNESS: Five prescribers
1		$\frac{1}{2}$	_
2	shopping. So I'd have to say that there's	$\frac{2}{3}$	within a 12-month period is our definition of
3	when we see that, it's a concern that	4	doctor shopping. BY MR. CHEFFO:
4	something's going on and very suggestive of	1	
5	somebody who has a drug problem.	5	Q. Two, three or four is not, under
6	BY MR. CHEFFO:	6	your definition, right?
7	Q. What is doctor shopping?	7	A. Does not meet the definition for
8	A. We use the definition that was	8	doctor shopping that we we adopted.
9	provided by one of our treatment individuals	9	Q. You mentioned morphine equivalent as
10	when we did our initial review of overdoses. I	10	being another surrogate or or or signal.
11	believe she took that from the Department of	11	How does morphine equivalent play
12	Health for the state, which is accessing five	12	into the analysis of doctor shopping?
13	or more prescribers in a 12-month period.	13	A. It doesn't play into it at all. The
14	Q. So if someone accesses and has four	14	doctor shopping definition is five or more
15	doctors at the same time getting controlled	15	prescribers within a 12-month period.
16	substances, that's not doctor shopping, under	16	Q. It doesn't matter what the morphine
17	your definition?	17	equivalents are?
18	A. That's right.	18	A. I'm not saying that. I just it
19	Q. Would you consider that to be doctor	19	doesn't meet the definition of doctor shopping.
20	shopping?	20	Or the definition we use for doctor shopping
21	If you were doing an autopsy, and	21	does not include a reference to
22	you looked at the OARRS database, and you saw	22	morphine-equivalent doses.
23	that Mrs. Smith got coordinate prescriptions,	23	Q. So so in terms of doctor
24	let's say even opioids, from four separate	24	shopping, the only definition that your your
25	doctors at the same time, would that raise a	25	office uses if is if somebody has seen or
	Page 59		Page 61
1	concern to you that that's doctor shopping?	1	been prescribed a controlled substances by five
2	MR. BADALA: Objection to form.	2	or more doctors within a 12-month period; is
3	THE WITNESS: It doesn't meet the	3	that right?
4	definition of doctor shopping. It could raise	4	A. That's our definition of doctor
5	a concern about morphine-equivalent doses that	5	shopping.
6	she's receiving, which would be another source	6	Q. Now, am I correct that that you
7	of concern to us.	7	and your colleague are not slavishly adhered to
8	BY MR. CHEFFO:	8	formal definition if things don't make sense to
9	Q. Would you be concerned if you saw	9	you?
10	that?	10	MR. BADALA: Objection to form.
11	MR. BADALA: Objection to form.	11	THE WITNESS: I don't think anybody
12	THE WITNESS: Sure.	12	should do that really.
13	BY MR. CHEFFO:	13	BY MR. CHEFFO:
14	Q. But so but from a statistics	14	Q. Right.
15	and perspective, you would not characterize	15	So if you were doing an
16	that as doctor shopping; is that right?	16	investigation, and someone received high doses
17	A. It does not meet the definition that	17	of a controlled substance by four doctors at
18	we use for doctor shop.	18	the same time, would part of your analysis be
19	Q. And how long have you used that	19	that you want to explore whether this person
20	definition?	20	was actually was engaging in doctor shopping?
21	A. Since 2013.	21	A. What we did was, when we've
22	Q. So if somebody has five doctors that	22	identified individuals who met the definition
I .		23	for doctor shopping, we would refer them to the
23	they're getting the prescriptions from at the	43	for doctor shopping, we would refer them to the
23 24	they're getting the prescriptions from at the same time, that's doctor shopping, right?	24	
			Board of Pharmacy for investigation. And there were instances as well

16 (Pages 58 - 61)

	D (2		D (4
1	Page 62 when we saw people who had high	1	Page 64 further investigation as well.
2	morphine-equivalent doses that we also referred	2	BY MR. CHEFFO:
3	to the Board of Pharmacy for follow-up.	3	Q. In that one case that you handled,
4	Q. So am I correct that, if if if	4	why did you well, let me strike that.
5	somebody had one doctor and you believed that	5	When you say you referred to the
6	there was a question about the morphine	6	Board of Pharmacy, is is that am I
7	equivalent that was being prescribed, that	7	correct that that's referring the licensed
8	person could be referred to the Board of	8	healthcare provider to the Board of Pharmacy?
9	Pharmacy?	9	Is that is that the the person
10	A. We have done that in some instances,	10	who is subject to the jurisdiction of the Board
11		11	of Pharmacy?
12	yes. Q. Have you ever raised concerns about	12	A. Right.
13	Q. Have you ever raised concerns about doctor shopping when someone has four doctors	13	-
14	11 0	14	MR. BADALA: Objection to form. THE WITNESS: Sorry.
	prescribing let's say opioid medicines at the same time?	15	•
15			The prescriber would be subject to
16	A. I'm sorry if I'm not clear. By	16	oversight by the Board of Pharmacy. BY MR. CHEFFO:
17	definition, we don't consider that doctor	17	
18	shopping.	18	Q. And why did you refer that was it
19	Q. And that's not what I'm asking	19	a doctor? Was it a health a nurse
20	though.	20	practitioner? Do you remember?
21	You may not consider it under your	21	A. I don't remember exactly.
22	definition, but have you acted in a practical	22	Q. Okay. So whoever it was, why did
23	manner and referred anyone to the Board of	23	you refer that healthcare practitioner, that
24	Pharmacy when you've seen someone who has two,	24	prescriber, to the Board of Pharmacy?
25	three or four doctors prescribing medicine at	25	A. Because this individual had seemed
	Page 63		Page 65
1	the same time?	1	to receive a lot of pain medication based on
2	MR. BADALA: Objection to form.	2	our OARRS review and also was symptomatic of
3	THE WITNESS: I can't give you	3	I think she was abusing her medications and
4	specific names, but we have referred people to	4	1: 1 - C - 1 1 1 - C -
	1 1	4	died of a drug overdose and, you know, left a
5	Board of Pharmacy where it seemed like there	5	couple kids behind and a husband.
	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain		couple kids behind and a husband. Q. And
5	Board of Pharmacy where it seemed like there	5	couple kids behind and a husband.
5 6	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain	5 6	couple kids behind and a husband. Q. And
5 6 7	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more	5 6 7	couple kids behind and a husband. Q. And A. Not that we reported it because of
5 6 7 8	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more prescribers in a 12-month period.	5 6 7 8	couple kids behind and a husband. Q. And A. Not that we reported it because of that, but just part of the tragedy.
5 6 7 8 9	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more prescribers in a 12-month period. And it can be as few as one. I	5 6 7 8 9	couple kids behind and a husband. Q. And A. Not that we reported it because of that, but just part of the tragedy. Q. And and did you refer it to the Board of Pharmacy because you believed that there was a question about whether the doctor
5 6 7 8 9 10	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more prescribers in a 12-month period. And it can be as few as one. I distinctly remember one of my own case where a	5 6 7 8 9 10	couple kids behind and a husband. Q. And A. Not that we reported it because of that, but just part of the tragedy. Q. And and did you refer it to the Board of Pharmacy because you believed that
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5 6 7 8 9 10 11 12	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more prescribers in a 12-month period. And it can be as few as one. I distinctly remember one of my own case where a woman overdosed. She was basically described by her husband as, you know, falling asleep right before she died and, you know, had a lot of prescriptions from I think one individual.	5 6 7 8 9 10 11 12	couple kids behind and a husband. Q. And A. Not that we reported it because of that, but just part of the tragedy. Q. And and did you refer it to the Board of Pharmacy because you believed that there was a question about whether the doctor or healthcare provider had engaged in
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Board of Pharmacy where it seemed like there was an excessive dosing of prescription pain medication who did not have five or more prescribers in a 12-month period. And it can be as few as one. I distinctly remember one of my own case where a woman overdosed. She was basically described by her husband as, you know, falling asleep right before she died and, you know, had a lot of prescriptions from I think one individual. And we referred her for further investigation. I don't remember if it was in conjunction with law enforcement, who may have already been aware of this, or if it was in our review our referral to the Board of Pharmacy. I don't remember the details of the follow-up. But we use a specific definition of	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	couple kids behind and a husband. Q. And A. Not that we reported it because of that, but just part of the tragedy. Q. And and did you refer it to the Board of Pharmacy because you believed that there was a question about whether the doctor or healthcare provider had engaged in appropriate medical care of the patient? A. We were concerned about the role that the medications had played in her death. I don't practice that kind of medicine. But that's the kind of investigation that we would ask the Board of Pharmacy to conduct. Q. Did you question whether the doctor did the right thing in prescribing that much or was careless in monitoring the patient? MR. BADALA: Objection.

	Page 66		Dans 60
1	Page 66 MR. BADALA: Objection to form.	1	Page 68 A. And it would have been a file we
2	THE WITNESS: I was concerned about		would have released over.
3	how much pain medicine this individual had	3	Q. Do you have a place that you keep
4	received and the nature of her death, that they	4	all of the the names of the practitioners
5	weren't being used properly.	5	who you have referred to boards of pharmacy or
6	BY MR. CHEFFO:	6	any type of law enforcement agency?
7	Q. Do you know happened to the	7	MR. BADALA: Objection to form.
8	healthcare prescriber, if anything?	8	THE WITNESS: I believe that exists
9	A. I do not.	9	for the agency. I don't personally have
10	Q. Did you follow up?	10	that's not something I personally do.
11	A. No, I did not.	11	BY MR. CHEFFO:
12	Q. Do you know if the do you know	12	Q. If you wanted to find it, who would
13	anything about why the prescriber wrote the	13	you ask?
14	prescriptions?	14	A. Either the Board of Pharmacy
15	MR. BADALA: Objection to form.	15	themselves or the person I most often, you
16	THE WITNESS: I didn't speak	16	know, ask to make the referrals is Hugh Shannon
17	personally to the prescriber.	17	in my office, my operations chief.
18	BY MR. CHEFFO:	18	Q. Do you hold yourself out as an
19	Q. Do you know what condition the	19	expert in ARCOS.
20	decedent was being treated for?	20	Do you know what that is?
21	A. I don't remember. My investigators,	21	A. I know what it is, and I have a
22	when they respond to a death scene, will take a	22	general knowledge of it. But I would not claim
23	medical history. I don't remember the details	23	to be an expert in that.
24	of that.	24	Q. Are you an expert in statistics?
25	Q. Do you know if the doctor do you	25	A. I know some statistics. I I
	Page 67		Page 69
1	have any personal knowledge about whether the	1	don't hold any degree in statistics. And I
2	doctor was influenced by anybody else in his or	2	would not say that I would be somebody
3	her prescribing?	3	consulted as an expert in statistics.
4	MR. BADALA: Objection to form.	4	Q. Just to follow up on the the
5	THE WITNESS: I didn't speak to the	5	doctor shopping, what's the what is the
6	doctor.	6	definition of of how your department, your
7	BY MR. CHEFFO:	7	office, defines doctor shopping?
8	Q. Right.	8	A. Again, we adopted a definition from
9	Do you have any information at all	9	our addiction medicine specialist on our review
1 4 0	about why the doctor prescribed the medicine?	10	panel. And I believe she was using a
10			
11	MR. BADALA: Objection to form.	11	definition from Ohio Department of Health,
11 12	MR. BADALA: Objection to form. THE WITNESS: Again, in reviewing	12	definition from Ohio Department of Health, which is five or more prescribers within a
11 12 13	MR. BADALA: Objection to form. THE WITNESS: Again, in reviewing the scene investigation and history take	12 13	definition from Ohio Department of Health, which is five or more prescribers within a 12-month period.
11 12 13 14	MR. BADALA: Objection to form. THE WITNESS: Again, in reviewing the scene investigation and history take that was taken, there may have been a medical	12 13 14	definition from Ohio Department of Health, which is five or more prescribers within a 12-month period. Q. Is it 12-month
11 12 13 14 15	MR. BADALA: Objection to form. THE WITNESS: Again, in reviewing the scene investigation and history take that was taken, there may have been a medical condition that would have, you know, been	12 13 14 15	definition from Ohio Department of Health, which is five or more prescribers within a 12-month period. Q. Is it 12-month A. For the OARRS database. I should
11 12 13 14 15 16	MR. BADALA: Objection to form. THE WITNESS: Again, in reviewing the scene investigation and history take that was taken, there may have been a medical condition that would have, you know, been treated with opioids by that doctor. I don't	12 13 14 15 16	definition from Ohio Department of Health, which is five or more prescribers within a 12-month period. Q. Is it 12-month A. For the OARRS database. I should say
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	D 70		D 72
1	Q. It's your recollection is it's 12	1	Page 72 the Board of Pharmacy?
2	months, not 13 months?	2	A. Yes.
$\frac{2}{3}$	A. We use 12 months in our office.	3	
l .			Q. And what what kind of information
4	Q. And what was that that	4	do you send them?
5	professional's name that made the	5	A. We send them the patient name or
6	recommendation; do you remember?	6	the decedent name, actually. These would be
7	A. Dr. Christine de los Reyes.	7	people who had overdosed. And that, based on
8	Q. And how many	8	our analysis of OARRS, we were seeing more
9	A. I'm sorry. If I could just finish.	9	prescribers who fit into the definition of
10	She was	10	doctor shopping. And it's you know, the
11	Q. Yep.	11	database is generated by the Board of Pharmacy.
12	A the medical director of the	12	And they can investigate further as they see
13	alcohol, drug addiction and mental health	1	fit.
14	services for Cuyahoga County at that time.	14	Q. Every is it fair to say that
15	She's since left that position and gone back to	15	every case of doctor shopping that you have
16	her practice of addiction medicine.	16	identified you've referred to the Board of
17	Q. How many and let me talk first	17	Pharmacy, you or your office?
18	about you personally, and then I'll ask you	18	MR. BADALA: Objection to form.
19	some questions about the department.	19	THE WITNESS: I believe so.
20	But how many cases of doctor	20	BY MR. CHEFFO:
21 22	shopping have you identified since you have	21 22	Q. That's the policy?A. Yes.
23	joined the office in Cuyahoga? A. I don't know.	23	
24			Q. So in any situation where someone
25	Q. Is it more than one? Can you recall anyone other than the	24 25	receives five prescriptions from five control strike that.
23		23	
1	n 71		
1	Page 71	1	Page 73
1 2	one we've been talking about?	1 2	In any situation where a decedent
2	one we've been talking about? A. Going back through retrospective	2	In any situation where a decedent received controlled substance prescriptions
2 3	one we've been talking about? A. Going back through retrospective data, yeah, it's more certainly more than	2 3	In any situation where a decedent received controlled substance prescriptions from five or more healthcare providers over
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2 3 4 5	one we've been talking about? A. Going back through retrospective data, yeah, it's more certainly more than one. Q. I'm talking about you.	2 3 4 5	In any situation where a decedent received controlled substance prescriptions from five or more healthcare providers over or within a 12-month period, it's the policy of your office to refer each of those prescribers
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19 (Pages 70 - 73)

1	Page 74	1	Page 76 So I don't I don't know for certain.
1	Q. Do you do a summary or some some	1	
2	type of forming reporting, or you just send	2	Q. Do you know if any of the the
3	kind of a packet of information?	3	doctors who have been referred in connection
4	MR. BADALA: Objection to form.	4	with a a decedent referral have been
5	THE WITNESS: I'm not sure I	5	prosecuted?
6	understand your question.	6	A. I'd have to say, again, I don't
7	BY MR. CHEFFO:	7	follow up with them. And I haven't received
8	Q. Do you know how what the the	8	that feedback from them. So I don't know.
9	process is in order to make a formal referral	9	MR. BADALA: We've been going
10	or or filing with the Board of Pharmacy, or	10	about over an hour.
11	does someone else do that in your office?	11	MR. CHEFFO: Yeah.
12	A. Somebody else in my office will do	12	MR. BADALA: Good time to take a
13	that. We contact the investigative unit. I'm	13	break?
14	familiar with the process to some extent. We	14	MR. CHEFFO: Can I ask one more
15	contact the investigative unit and refer names	15	question, and then we'll
16	of individuals who have five or more	16	MR. BADALA: Yeah. Sure.
17	prescribers in a 12-month period to them for	17	MR. CHEFFO: do that?
18	follow-up.	18	MR. BADALA: Is that okay, Dr.
19	Q. Do you know if they interview any	19	Gilson?
20	you or anyone in your office?	20	THE WITNESS: Yeah. It's fine with
21	"They" meaning the Board of	21	me.
22	Pharmacy do they is it their practice to	22	BY MR. CHEFFO:
23	come back and either ask to speak with someone	23	Q. And am I is it correct that
24	personally or ask for additional documents or information?	24 25	that, even though you make a referral, you
25	information?	23	would agree that there could upon further
	Page 75		D 77
1		1	Page 77
1 2	MR. BADALA: Objection to form.	1	investigation and looking at all the facts,
2	MR. BADALA: Objection to form. THE WITNESS: Personally they have	2	investigation and looking at all the facts, that that it could be that various doctors
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The time is 10:36. You may proceed, Counsel. MR. CHEFFO: Thank you. BY MR. CHEFFO: Thank you. BY MR. CHEFFO: Thank you. CHEFFO: Q. Dr. Gilson, is there any testimony that you've given that you'd like to modify or amend up until this point? A. No, sir. Q. You mentioned referrals, in your professional capacity, to the Board of Pharmacy. Do you recall that? Do you recall that? Do you recall that? Do you recall that? MR. BADALA: Objection to form. HHE WITNESS: I don't know the specific answers to those questions. MR. BADALA: Objection to form. THE WITNESS: I don't know the specific answers to those questions. MR. BADALA: Objection to form. THE WITNESS: I don't know the specific in connection with doctor shopping or agony prescriptions that you believed were questionable? A. As I understand it, there is a state agency that's tasked with the investigation of irregularities in prescribing. A. As Q. And how many times have you personally made referrals to the Board of Medicine in connection with doctor shopping or any prescriptions that you believed were questionable? MR. BADALA: Objection to form. THE WITNESS: I don't know. Descriptions that you believed were questionable? A. As I say, we've done the referrals to the Board of Pharmacy. Whether there was a report to the Board of Pharmacy. Whether there was a report to the Board of Pharmacy. Whether there was a report to the Board of Pharmacy with the referrals to the Board of Pharmacy. Whether there was a report to the Board of Pharmacy. Whether there was a report to the Board of Pharmacy with the referrals to the Board of Pharmacy and prescriber. But us going back to them with regard to prescribing. A. As I say, we've done the referrals to the Board of Pharmacy. A. As I say, we've done the referrals to the Board of Pharmacy. A. As I say, law enforcement for Board of Pharmacy. A. As I say, law enforcement might have contacted us about a concern. But we weren't reaching back to them for our	1	Page 78		Page 80
You may proceed, Counsel. A. MR. CHEFFO: Thank you. A. Delievel answered you full the state? A. Yes, I am. Q. And how many times have you personally made referrals to the Board of Medicine in the state? A. Yes, I am. Q. And how many times have you personally made referrals to the Board of Medicine in the state? A. Yes, I am. Q. And how many times have you personally made referrals to the Board of Medicine in connection with doctor shopping or any prescriptions that you believed were questionnis? A. Yes, I am. Q. And how many times have you personally made referrals to the Board of Medicine in connection with doctor shopping or any prescriptions that you believed were questions that you believed were questionable? A. A. S. I say, we've done the referrals to the Board of Pharmacy. A. A. S. I say, we've done the referrals to the Board of Pharmacy. A. A. S. I say, we've done the referrals to the Board of Pharmacy. A. A. S. I say, we've done the referrals to the Board of Pharmacy. A. No. I don't know. You wouldn't - A. A. S. I say, we've done the referrals to the Board of Pharmacy. You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. I say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals You wouldn't - A. A. S. Say, we've done the referrals	1		1	
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Q. What does the Board of Pharmacy do, and what does it have jurisdiction over? MR. BADALA: Objection to form. THE WITNESS: I don't know the specific answers to those questions. BY MR. CHEFFO: Q. Do you know why you've made referrals to that particular organization? A. As I understand it, there is a state agency that's tasked with the investigation of irregularities in prescribing. Q. Are you aware of whether there's Page 79 A. Yes, I am. Q. And how many times have you prescriptions that you believed were questionable? MR. BADALA: Objection to form. Page 81 A. Yes, I am. Q. And how many times have you any prescriptions that you believed were questionable? MR. BADALA: Objection to form. BY MR. CHEFFO: Q. Carn you remember at all ever doing that or anyone in your office doing that? A. As I say, we've done the referrals to the Board of Pharmacy. A. As I say, we've done the referrals to the Board of Pharmacy. Q. Well, let me do do you have a recollection? Q. Do you have a recollection? Q. Do you have a recollection? A. I bolieve I answered your questions. Page 79 A. Doing Q. Can you remember at all ever doing that or anyone in your office doing that? A law enforcement for questions you had about doctor shopping or healthcare providers who have engaged in inappropriate prescribing? MR. BADALA: Objection to form. THE WITNESS: Are we considering the investigative unit of Board of Pharmacy, a law enforcement of Bay MR. CHEFFO: Q. No. Other than the Board of Pharmacy. A. Referrals to law enforcement I I don't remember. Sometimes they've have come to us with concerns about a prescriber. But us going back to them with regard to prescribing. J. A. Referrals to law enforcement II II don't remember any instances. We would have used to Board of Pharmacy. Q. Can you remember at all ever doing that or anyone in your office doing that? A. Doing Q. Can you remember at all ever doing that or anyone in your office doing that? A. Doing Q. Law enforcement for Board of Pharmacy.	12	· · · · · · · · · · · · · · · · · · ·	12	
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	Page 82		Page 84
1	identified decedents.	1	A. My first point of contact would be
2	BY MR. CHEFFO:	2	the operations chief, who does the bulk of
3	Q. Where would you look if you wanted	3	reports to Board of Pharmacy to see if there
4	to see if there was ever report of any referral	4	were other referrals that were made.
5	to law enforcement in connection with a	5	Q. Has that who is that person?
6	physician or potentially inappropriate	6	A. Hugh Shannon.
7	prescribing?	7	Q. Okay. How long has Hugh Mr.
8	MR. BADALA: Objection to form.	8	Shannon or Dr. Shannon been in that position?
9	THE WITNESS: There are, you know,	9	A. Mr. Shannon. He
10	50-plus law enforcement agencies in the county.	10	Q. Mr. Shannon.
11	I again, I don't know how we would track	11	A. Yeah. He'd like to be Dr. Shannon
12	that. I just don't know.	12	sometimes.
13	BY MR. CHEFFO:	13	He and I came about the same time in
14	Q. Okay. That's not my question,	14	2011. He was there I think about a week or two
15	Doctor. I'm sorry if it was a bad one.	15	ahead of me.
16	You told us earlier that that	16	Q. In your review of in your autopsy
17	your department kept track of referrals to the	17	work, have you ever raised, in your own mind, a
18	Board of Pharmacy.	18	question about whether a prescriber had
19	Remember that?	19	violated a standard of care in connection with
20	MR. BADALA: Objection to form.	20	prescription of controlled substances?
21	THE WITNESS: Yes, I do.	21	MR. BADALA: Objection to form.
22	BY MR. CHEFFO:	22	THE WITNESS: Raised I I
23	Q. And what I'm trying to find out, is	23	sorry if I'm not understanding your question.
24	there any way that anywhere that, to the	24	Raised a concern to whom?
25	extent that it occurred, we would find records	25	BY MR. CHEFFO:
	Page 83		Page 85
1	Page 83 of referrals from your agency from your	1	Page 85 Q. To you.
1 2	Page 83 of referrals from your agency from your office to either the Board of Medicine or to a	1 2	Q. To you.
	of referrals from your agency from your		Q. To you.
2	of referrals from your agency from your office to either the Board of Medicine or to a	2	Q. To you.A. Could I just get the question again.
2 3	of referrals from your agency from your office to either the Board of Medicine or to a law enforcement agency.	2 3	Q. To you.A. Could I just get the question again.I
2 3 4	of referrals from your agency from your office to either the Board of Medicine or to a law enforcement agency. A. I don't know.	2 3 4	Q. To you.A. Could I just get the question again.IQ. Sure. Well, let's use an example.
2 3 4 5	of referrals from your agency from your office to either the Board of Medicine or to a law enforcement agency. A. I don't know. Q. Who would you ask if you wanted to	2 3 4 5	 Q. To you. A. Could I just get the question again. I Q. Sure. Well, let's use an example. You told us earlier that you had a
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	Page 86	1	Page 88
1	A after we took a look at the OARRS	1	A. My license is issued I by the
2	data on the	2	Board of Medicine, and I think they regulate
3	Q. Is overmedication a breach of a	3	it.
4	standard of care?	4	Q. Do you believe that they could
5	A. I don't know.	5	regulate the standard of care or or gross
6	Q. You're a doctor.	6	violations of the standard of care?
7	Isn't isn't it?	7 8	MR. BADALA: Objection to form. THE WITNESS: I don't know that with
8	A. I don't prescribe. And I really don't do a lot of that kind of medicine. So I	9	
9		10	certainty. I don't know who does that function in the state.
10	don't really know what the state's, you know, ruling on standard of care would be there. But	11	BY MR. CHEFFO:
12	runing on standard of care would be there. But	12	Q. We talked a little bit earlier about
13	Q. Okay. So you're not an expert on	13	cocaine use in Cuyahoga County.
14	the standard of care for prescribing opioids or	14	Do you remember that?
15	other controlled substances, fair?	15	A. Yeah. Yes, I do.
16	MR. BADALA: Objection to form.	16	Q. And correct me if I'm wrong, but
17	THE WITNESS: I don't do it. So I	17	I I thought I understood you to say, Doctor,
18	wouldn't have the experience. I have education	18	that after 2016 there was an increase from the
19	about opioids. But the prescribing of them I	19	baseline in cocaine overdose deaths.
20	haven't done in a very long time. So I'd have	20	A. And the absolute number and the
21	to say I I don't know.	21	increase was related to fentanyl mixtures. And
22	BY MR. CHEFFO:	22	the baseline of cocaine, in absence of fentanyl
23	Q. And in your personal experience in	23	and opioids, had remained flat. It hadn't
24	your capacity in the office since you've been	24	changed dramatically.
25	here in 2011, have you ever made a	25	Q. What was the baseline; do you
	Page 87		D 00
1		1	Page 89 remember?
1 2	determination a personal determination that a doctor violated the standard of care in	1 2	remember?
1 2 3	determination a personal determination that a doctor violated the standard of care in		remember?
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2 3	determination a personal determination that a doctor violated the standard of care in connection with prescribing controlled	2 3	remember? A. Going back again to 2006, we tended
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24 (Pages 90 - 93)

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		•		Q. Uh-huh. Sure.
25 source of fentanyl, to get the and 25 it's a product from our office, so I'm familiar		-		· · · · · · · · · · · · · · · · · · ·
			25	'd 1 4_C CC' II _ C'1I' _

	D 00		Page 100
1	Page 98 with it.	1	detection beyond which we would say, if it's
2	Q. And your name's on the front page,	2	under that, we did not detect it. And
3	right?	3	that's refers to the sensitivity of the
4	A. That's right.	4	instrument and possibility of interference.
5	Q. Would you look at the fourth page,	5	But caffeine is an example where, if we have a
6	please.	6	positive at a certain level, we don't
7	A. This this one.	7	quantitate it because it's consistent with
8	Q. Yes.	8	somebody drinking a cup of coffee.
9	A. Sure.	9	People have overdosed on caffeine
10	Q. It says "Cuyahoga County Overdose	10	though, and we've quantitated those.
11	Deaths 2006 to 2014."	11	Q. Okay.
12	Do you see that?	12	A. So some are qualitative, I guess,
13	A. Yes, I do.	13	some of our results; some are quantitative.
14	Q. And it says "Most Common Drugs,"	14	Q. So these are the most common, but
15	correct?	15	it's certainly not a exhaustive list of all
16	A. Yes.	16	the the the drugs that are found in in
17	Q. And is that the most common drugs	17	decedents, fair?
18	found in individuals who died from overdoses in	18	A. That would be fair, yes.
19	the years 2006 to 2014?	19	Q. And first let me just see if I if
20	A. Yes, it is.	20	we're on the same page about this data. So for
21	Q. And before I ask you specific	21	illustrative purposes, would you follow me and
22	questions about this, let me just ask you a few	22	look at the the 2012 data that's on the
23	questions about how you make that	23	bottom. And it says "310 cases."
24	determination.	24	Do you see that?
25	So when someone has an autopsy done	25	A. Yes. Okay.
	Page 99		Page 101
1	and there's a toxicology report, do you	1	Q. And that am I correct that that
2	identify try to identify all drugs or just look for certain drugs?	2	means that there were 310 overdose deaths in
3	TOOK TOT CETIAIN OFFISE?	1 2	
1	· · · · · · · · · · · · · · · · · · ·	3	the year 2012?
4	A. We would try to identify all drugs.	4	the year 2012? A. Yes. That's right.
5	A. We would try to identify all drugs. And, you know, I think one of the challenges	4 5	the year 2012? A. Yes. That's right. Q. And then there are various numbers
5 6	A. We would try to identify all drugs. And, you know, I think one of the challenges is isn't necessarily they can find	4 5 6	the year 2012? A. Yes. That's right. Q. And then there are various numbers associated with the various drugs that are
5 6 7	A. We would try to identify all drugs. And, you know, I think one of the challenges is isn't necessarily they can find everything. So the assays are directed to	4 5 6 7	the year 2012? A. Yes. That's right. Q. And then there are various numbers associated with the various drugs that are listed on this chart for each year, correct?
5 6 7 8	A. We would try to identify all drugs. And, you know, I think one of the challenges is isn't necessarily they can find everything. So the assays are directed to certain drugs.	4 5 6 7 8	the year 2012? A. Yes. That's right. Q. And then there are various numbers associated with the various drugs that are listed on this chart for each year, correct? A. Yes. Okay.
5 6 7 8 9	A. We would try to identify all drugs. And, you know, I think one of the challenges is isn't necessarily they can find everything. So the assays are directed to certain drugs. But it's a very broad class of drugs	4 5 6 7 8 9	the year 2012? A. Yes. That's right. Q. And then there are various numbers associated with the various drugs that are listed on this chart for each year, correct? A. Yes. Okay. Q. And and the in 2012 there's
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	Page 102		Page 104
1	Q. And it says "All Opioids Including	1	I would be concerned about fentanyl especially
2	oxycodone and fentanyl."	2	in 2014. Because that's the year that we
3	Do you see that?	3	started to see more illicitly manufactured
4	A. Yes, I do.	4	fentanyl show up in our area. But the All
5	Q. What else does "all opioids"	5	Opioids would be drugs we would think of as
6	include?	6	opioid pain relievers, the prescription
7	A. Other drugs that have a similar	7	opioids.
8	effect to the opioids or just the ones that act	8	Q. So when it says 85, we're
9	on the mu receptor in the brain. So opioids	9	you're you're certain it's your testimony
10	would include oxycodone, hydrocodone,	10	that all of these were prescriptions, and they
11	oxymorphone, hydromorphone, methadone, any	11	weren't street drugs?
12	number of drugs.	12	A. They may have been diverted to the
13	Q. It would include methadone as well?	13	street. I'd if but as I understand this
14	A. Yes.	14	number, it's the prescription opioids.
15	Q. And and what is methadone	15	Q. When you do a a a tox assay or
16	typically used for?	16	screening and you find fentanyl, can you
17	A. It was traditionally used as a drug	17	determine whether it's a prescription fentanyl
18	for people who were tapering off of heroin	18	or an illicit fentanyl that was never
19	addiction. And it also became used more	19	manufactured lawfully by a pharma company?
20	recently as a medication for the treatment of	20	A. We have seen impurities in fentanyl
21	chronic pain.	21	that don't usually show up in the manufacturing
22	Q. And if we wanted to know and break	22	process, which suggests a illicit source. But
23	out how many of those 85 in the All Opioid	23	I can't point to the fentanyl itself, that
24	category were associated with methadone, I take	24	molecule, and say that's illicit or not.
25	it you have records that would be able to do	25	Q. So then how is it that you can tell
	Page 103		Page 105
1	Page 103 that; is that right?	1	Page 105 us with certainty that all 85 of those are from
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that; is that right? A. Yes. We would be able to do that. We can't do it here as I sit here today, but we would be able to do that. Q. As a general matter, you know, based on your expertise and experience, what percentage of the All Opioid number is comprised of methadone? MR. BADALA: Objection to form. THE WITNESS: We looked at that over this time frame, and there were fluctuations. I couldn't give you a specific number though. I don't know. BY MR. CHEFFO: Q. Can you give me a ballpark? A. I wouldn't want to, no. Q. Is it, you know, 50 percent? 20 percent? A. I don't remember. Q. Is there any way to determine from this chart whether these are at least unto the opioids, whether they are prescription	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	us with certainty that all 85 of those are from prescription opioids? A. I'm sorry if I said I I just said I don't know. I'd have to go back and look at the actual data. Q. No. I think you told me A. But Q that they were prescriptions. That's what I was asking you. A. They would be the prescription narcotics. They that was how we were classifying them, that class of drugs. Q. Right. But you just told me ten seconds ago that this could include fentanyl that was synthetic that was never a prescription drug. A. No. I said that about 2014. We really didn't see fentanyl as illicitly manufactured fentanyl in our laboratory in our drug seize laboratory before 2014. And that was when the DEA made their report about a rise in seizures of illicitly manufactured

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patch or fentanyl — pharmaceutical fentanyl. We didn't see it — Q. So — A. — clearly — you're — you're certain that all 85 are either lawful or diverted prescriptions in the All Opioid? That's your testimony? MR. BADALA: Objection to form. THE WITNESS: 1 — I — I'd have to see the data to be more certain. But that's my understanding of what we were tracking under All Opioids. BY MR. CHEFFO: Q. What would you need to look at to determine whether you were correct or not? A. I'd like to look at the case files on this and review before I made a statement with certainty. Q. And what would you kook for what? If we looked at the likes for each of these 85 people, and we wanted to know whether or not the opioids found in their system were from either lawful or — or diverted prescriptions. A. I's aces specific. I'd — you know, we'd look for? A. I'd like to look at the case files on this and review before I made a statement with certainty. Q. And what would you look for in the case the data to be more certain. But that's my understanding of what we were tracking under the well of the process later with featural. But — whether there were impurities that we had seen in the synthetic there was anything recovered at the seene in the synthetic there was anything recovered at the seene in the seen from 20 thave the containts of the person had access to hop they were tested. The OARRS report may be helpful to see if the person had access to the principal of the person had access	Г				
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pharmaceutical-grade fentanyl. Q. And you test for that? A. What's that? Q. You test for that as part of your tox study? A. Yeah. We absolutely do. Q. When did that start? A. When fentanyl became a problem, I think we were starting to invest in better instrumentation. And I think we started to detect that I would say probably in 2016. We may have detected it earlier. I don't know. It's not I just don't remember that. Q. Well A. But but certainly, with better instrumentation, the availability to detected it of the availability to detected it only the control of the c	that adds up exications. ly. And, as I n overdoses other with something
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16 A. But but certainly, with better 16 total reflects individual drugs as	•
1/ instrumentation, the availability to detected 1/ drugs in combination for mortali	
	•
18 some of these impurities went up. 18 Q. So so there's a an ele	
Q. Well, you said when fentanyl became 19 double counting in in this char	_
20 a problem. 20 A. To reflect the mixtures w	
21 It looks to me like there was a 21 have seen in the drug overdose d 22 there's a there's a high number in in 22 Q. So if if you had somebo	
	-
1	· ·
1 /3 / 5	
Page 111 1 overdoses. I don't think that number was 1 counted three times.	Page 113
2 changing much over the previous few years. 2 A. In this graph, it would	l ha in tha
3 Q. Eight overdoses or or 3 heroin line, in the cocaine line	
4 A. I see eight fentanyl overdoses in 4 fentanyl line. That's right.	c and in the
5 2011. 5 Q. Is it only in this graph	or do vou
6 Q. Okay. So and that's fentanyl 6 do that typically when you re	
7 so so let me just see if I understand. 7 statistics about heroin use or of	
8 So the the fentanyl line 8 MR. BADALA: Object	
9 is then those eight or whatever the number 9 THE WITNESS: These	
10 is there, that's recounted in the All Opioid 10 generated for each mention of	~ .
11 line? 11 on a death certificate. So we	
12 A. For this graph, yes, it is. 12 mixtures more than once on the	
13 Q. Okay. 13 reflect the usage of the difference of the differen	~ .
14 A. Subsequent to this, we generated 14 BY MR. CHEFFO:	ont substances.
15 graphs where fentanyl was not calculated into 15 Q. Do you make a determ	nination as to
16 the opioid line. But this one it was. 16 how much of each substance	
17 Q. And can you tell who manufactures a 17 system?	The in someone s
18 particular opioid based on a tox study? 18 A. The toxicology labora	tory will
19 A. No. 19 quantitate these substances will	•
20 Q. So let's go back to the 2012 column, 20 yes.	nore possiore,
21 if you will, please. 2012 column, 20 yes. 21 Q. Well, so let's assume,	in my
There was 310 cases of overdose 22 hypothetical, someone had the	•
23 deaths in that year in Cuyahoga, correct? 23 right? They had heroin, cocar	
24 A. Yes. 24 Do you make a determine	•

29 (Pages 110 - 113)

they're each listed, right, as -- from a

25

Q. And there's more -- if we -- if we

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	Page 114		Page 116
1	statistics perspective in each of those.	1	hypoxic, I don't get as much oxygen because of
2	Do you make a determination about	2	affects of fentanyl and heroin, it's going to
3	whether they received a lethal dose of any of	3	make cocaine more lethal in that soup, if you
4	those?	4	will, of overdose.
5	MR. BADALA: Objection to form.	5	So you can't really tease them
6	THE WITNESS: Obviously they died,	6	apart.
7	so I would say they received a lethal dose of	7	BY MR. CHEFFO:
8	the combination of them. It's not really	8	Q. Do you do any of that analysis?
9	possible in forensic practice to start to tease	9	Do you try to quantify any of that?
10	out this is 60 percent, this is 10 percent,	10	Or do you just do a tox study and
11	this is 20 percent.	11	say, "This is what's in the system. It's going
12	It's a combined effect. And that's	12	on the chart"?
13	how our death certificates are worded.	13	MR. BADALA: Objection to form.
14	Combined toxicity, combined effect. You can't	14	THE WITNESS: We interpret the
15	really tease out	15	toxicology with you know, in accordance with
16	MR. CHEFFO: Well	16	forensic practice, which would be what I'm
17	THE WITNESS: this contribution	17	describing.
18	versus that one.	18	BY MR. CHEFFO:
19	BY MR. CHEFFO:	19	Q. Is there any is there is it
20	Q. But it's not always combined, is it?	20	fair to say that, if if cocaine, for
21	Well, let me give you an example,	21	example, or fentanyl show up in any amount on
22	right? I'm sure you could think of a hundred	22	your assay, it's going to be listed as a cause
23	of them.	23	or contributing factor?
24	Where someone had a modest dose use	24	A. No.
25	of cocaine, and then they had a modest	25	Q. So there are times when you've
	Page 115		Page 117
1	nonlethal dose of fentanyl a day or two or	1	recorded it and it doesn't show up as a factor
2	however long it might last in their system, and	2	in and overdose death?
3	then they had a massive dose of heroin that,	3	MR. BADALA: Objection to form.
4	irrespective of anything else, would have	4	THE WITNESS: That wasn't your
5	killed them.	5	question, as I understood it.
6	In that case, that's not a	6	You know, toxicology is not a
7	contribution, is it?	7	substitution for a death investigation. So
8	MR. BADALA: Objection to form.	8	there's other information that has to be
9	THE WITNESS: Sure. It is. It	9	factored into a death ruling. That could be
10	certainly is, you know. And that's one of the	10	scene information. It could be circumstance
11	discussions we've tried to have with, you know,	11	information. It could be a lot of other
12	our prosecutor, especially our U.S. Attorney.	12	things.
13	And we met with Carole Rendon about it.	13	And, you know, we may have a
14	That becomes impossible for a	14	positive toxicology that does not fit with the
15	medical examiner to tease out this is the	15	clinical scenario of how a person died, in
16	problem, and this isn't. And that becomes very	16	which case that would not be included in a
17	important in the prosecutions because of this	17	death certificate.
18	idea of but-for causation.	18	BY MR. CHEFFO:
19	So if I can pick up on your example,	19	Q. You're talking about like a gunshot
20	if you have fentanyl, cocaine, heroin	20	wound.
21	fentanyl and heroin have similar actions, and	21	But I'm talking about
22	they will be expected to potentiate each other.	22	A. No, no. I
23	Cocaine has its own stimulant properties, but	23	Q let's talk about overdose deaths.
24	it's a cardiac irritant.	24	A I would talk let's say I'll
25	So if I'm becoming more and more	25	give

	D 110		D 120
1	Page 118 MR. BADALA: Are you done with you	r 1	Page 120
2	answer?		policy of your office, any measure, no matter
		2	how small or large, of an illicit substance,
3	THE WITNESS: No. Go ahead. I BY MR. CHEFFO:	3	that's going to automatically be deemed to be
4		4	causing or contributing; isn't that right?
5	Q. So are there situations where	5	A. No.
6	someone has had cocaine in their system in an	6	Q. So can you tell me any time where
7	overdose death, and it's not been listed as a	7	that's not happened?
8	cause or contributing factor?	8	A. I can't give you a specific
9	Can you think of any?	9	instance. But what you're saying is basically,
10	A. I can't think of any right now.	10	whatever I see on a toxicology report, I put on
11	Q. Are you aware of any?	11	a death certificate. And that's really not
12	A. I I don't know.	12	good forensic practice.
13	Q. Are you aware of any situations	13	A death investigation is a lot more
14	where someone has had heroin in their system,		than an autopsy report. And I don't think what
15	and it's not been listed as a cause or	15	you said really characterizes the professional
16	contribution in and overdose death?	16	judgment of my staff or me.
17	A. Yes.	17	Q. Can you tell me one situation in
18	Q. In what circumstances?	18	in your practice in Cuyahoga County where you
19	A. Well, if they have an older person	19	have not determined that an opioid was a cause
20	who suddenly grabs their chest, says, "Boy, I'n	120	or contributing factor when it's been detected
21	very short of breath, and I'm collapsing," you	21	in a tox assay
22	know, that's not the way people die from and	22	A. I cannot
23	overdose of heroin.	23	Q in an overdose death?
24	They usually go to sleep; they stop	24	A. I cannot right now.
25	breathing; they don't wake up. And there have	25	Q. Okay. Is there any standard
	Page 119		Page 121
1	been instances in my own practice where, you	1	operating procedures or guidelines to determine
2	know, I've not included heroin as a cause of	2	what is a lethal dose of a particular
3	death in that and gone with the heart disease.	3	substance, let's say an illicit drug?
4	Q. Yeah. But but I asked you,	4	A. There are published tables that will
5	Doctor, specifically overdose death. That's	5	talk about therapeutic levels; about, you know,
6	what I've talked about.	6	toxic levels; about lethal levels.
7	Did would you have when	7	I would have to caution again that,
8	someone walks in and they're 90 years old and	8	you know, those tables are reference tables.
9	they grab their heart, right, and they fall	9	They do not reflect the the practice of
1			•
10	down, they, say, have a heart attack, you're	10	forensic medicine, which would include obvious
10	down, they, say, have a heart attack, you're going to say that's a cardiac event, right?	10 11	•
			forensic medicine, which would include obvious
11	going to say that's a cardiac event, right?	11	forensic medicine, which would include obvious reference to that material but also clinical
11 12	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in	11 12	forensic medicine, which would include obvious reference to that material but also clinical information.
11 12 13	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system.	11 12 13	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower
11 12 13 14	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right.	11 12 13 14	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story
11 12 13 14 15	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection	11 12 13 14 15	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in
11 12 13 14 15 16	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for	11 12 13 14 15 16	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic
11 12 13 14 15 16 17	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay?	11 12 13 14 15 16 17	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice.
11 12 13 14 15 16 17 18	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay? Is there a situation where you've	11 12 13 14 15 16 17 18	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice. Q. Do you look at the do you
11 12 13 14 15 16 17 18	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay? Is there a situation where you've ever had where you've ever seen or aware of	11 12 13 14 15 16 17 18	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice. Q. Do you look at the do you yourself look at those tables or charts?
11 12 13 14 15 16 17 18 19 20	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay? Is there a situation where you've ever had where you've ever seen or aware of any level of an opioid in combination with	11 12 13 14 15 16 17 18 19 20	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice. Q. Do you look at the do you yourself look at those tables or charts? A. I have, you know, textbooks and
11 12 13 14 15 16 17 18 19 20 21	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay? Is there a situation where you've ever had where you've ever seen or aware of any level of an opioid in combination with other drugs where you have not characterized it	11 12 13 14 15 16 17 18 19 20 21	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice. Q. Do you look at the do you yourself look at those tables or charts? A. I have, you know, textbooks and charts that I use, yeah.
11 12 13 14 15 16 17 18 19 20 21 22	going to say that's a cardiac event, right? A. Right. Even if they saw heroin in their system. Q. Right. And my question is, in connection I'm I'm I'm talking specifically for overdose deaths. Okay? Is there a situation where you've ever had where you've ever seen or aware of any level of an opioid in combination with other drugs where you have not characterized it as causing or contributing to?	11 12 13 14 15 16 17 18 19 20 21 22	forensic medicine, which would include obvious reference to that material but also clinical information. So we may, you know, have lower levels of opiates with a very compelling story and certify that as an opiate death in accordance with, you know, stated forensic practice. Q. Do you look at the do you yourself look at those tables or charts? A. I have, you know, textbooks and charts that I use, yeah. Q. Do you know what a therapeutic dose

Page 122 Page 124 1 tables that will have ranges there. They 1 My former chief toxicologist wrote a 2 frequently overlap in my experience. And they 2 paper on this topic, and that was the number would be different for different opioids. 3 that we came. That's in keeping with the 3 4 BY MR. CHEFFO: 4 position paper from the National Association of 5 Q. In the All Opioids, does that 5 Medical Examiners on the certification of 6 include morphine? 6 opioid deaths. 7 A. That would be an opioid. I -- I 7 So we try to avoid lumping morphine 8 8 don't know if -- again, I don't know what deaths into here. Using those guidelines, I 9 specific opioids are here. But it certainly 9 think, you know, there may just be morphine 10 would be -- if it was present on a death 10 there. If we had a scene investigation, again, 11 certificate, would have been included in that 11 with heroin in somebody who was transported to 12 All Opioid portion of the graph. 12 a hospital, and all we were able to recover at 13 Q. And are you aware that, on some 13 that point was morphine, you know, we would 14 14 probably go on the side of saying that was or -- or -- or all tox screenings, heroin can 15 show up or -- or often does show up as 15 still heroin. 16 morphine? 16 Q. Is it fair to say that there are 17 A. Heroin is metabolized to morphine, processes that you attempt to look for after 17 18 so it may show up as morphine on a screen. 18 the initial toxicology finding of morphine to 19 Chemical structure is morphine, and then you 19 determine whether it's a derivative of heroin, 20 put two chemical groups on it, I acetyl, 2 20 but sometimes that's complicated by various 21 21 other factors, like body composition and time acetyl groups. 22 And as heroin is metabolized through 22 of death? 23 the body, what we see is one of the groups 23 A. The opiates as a group are pretty 24 comes off, and then we see a chemical called 24 stable after death. So I wouldn't think they 25 6-monoacetylmorphine. And then the other one 25 would impact it. Page 123 Page 125 comes off, and we may just see morphine. 1 Q. So I guess what I'm just trying to 1 2 Q. So in this 85, does that include 2 find, Doctor, is -- is --3 morphine? 3 MR. BADALA: Were you done with your 4 MR. BADALA: Objection to form. 4 answer? 5 5 THE WITNESS: It could. Again, I MR. CHEFFO: Well, I mean --6 don't know. 6 MR. BADALA: If you're not done, you BY MR. CHEFFO: 7 7 can -- you can answer his question. I mean --8 MR. CHEFFO: Go ahead. Go ahead. 8 Q. And if it -- if it does include 9 morphine, it could either be morphine, which is 9 MR. BADALA: If you're done, you're 10 a prescribed medicine, or it could be a marker 10 done. But if you're not done, you can still for heroin, correct? 11 answer your question. 11 12 A. The morphine may have come from 12 THE WITNESS: Oh. I just wanted to 13 either source. One of the things we rely on to say that, you know, they remain stable after 13 14 death. So, you know, we see that 6-AM, that 14 distinguish the two is finding that 15 6-monoacetylmorphine. So that may be a marker. 15 intermediate between heroin and morphine --16 Yes, there's morphine there, but there's also 16 MR. CHEFFO: Okay. 17 monoacetylmorphine. So we would certify that 17 THE WITNESS: -- an people are 18 as a heroin death. 18 decomposed. 19 The other thing that we can use is a 19 BY MR. CHEFFO: 20 ratio of morphine to codeine. Because when 20 Q. So 85, does it include morphine that 21 heroin is recovered from the poppy plant and 21 was the result of heroin or not? 22 processed, the ratio of morphine to codeine is 22 MR. BADALA: Objection to form. 23 23 usually substantially higher. We use, in our THE WITNESS: Using best practices, 24 laboratory, a ratio of five-to-one 24 we have made every effort to avoid including 25 heroin deaths in the morphine deaths. And I 25 concentration morphine to codeine.

32 (Pages 122 - 125)

1	Page 126	1	Page 128
1	cannot say with certainty that those best	1	THE WITNESS: I don't know where
2	practices cover everything, but I would expect	2	they go.
3	them to cover most. That was why they were	3	BY MR. CHEFFO:
4	promulgated.	5	Q. Where do you put them? A. Most of the OARRS files I've looked
5	BY MR. CHEFFO:	6	
6	Q. Okay. So they they may include	7	at I've looked at electronically. And I don't know that I've ever printed one myself.
7 8	some heroin usage; you can't say with certainty	8	Q. Okay. I think I just asked you
9	as you sit here, correct? A. That's again, you know, we've	9	that, did if you ever did.
10	A. That's again, you know, we've done everything we can to exclude it. But if	10	Did have you ever printed out an
11	you ask me with a hundred percent certainty can	11	OARRS form?
12	I exclude that, I can only follow best	12	A. I thought you said in has the
13	practices to exclude it.	13	office ever printed out
14	Q. Are you using the same practices to	14	Q. Have you ever printed one?
15	determine whether it was heroin today as you	15	A. Personally, no, I have not. I don't
16	were in 2012?	16	remember printing one.
17	A. Yes.	17	Have I seen printed copies in the
18	Q. You mentioned we talked about	18	office? Yes, I have.
19	earlier about a a healthcare provider that	19	Q. And the reason why you don't print
20	you made a referral to the Board of Pharmacy	20	them is why?
21	because of a morphine equivalent dose that you	21	MR. BADALA: Objection to form.
22	determined or at least questioned.	22	THE WITNESS: Save trees. I I
23	Do you remember that?	23	BY MR. CHEFFO:
24	A. I remember the case we're talking	24	Q. Is that that's it?
25	about. I don't remember if I said the	25	A. Well, I glean the information I need
	D 127		-
1	Page 127 morphine-equivalent dose or the clinical	1	from the electronic review. And I try not to
2	symptoms. But we looked at the OARRS report.	2	print things out if it's just going to be a
3	And I I had the concern about	3	redundant piece of information. So I mean I
4	overprescribing.	4	
5	Q. Where are the OARRS report for each	5	Q. How how big are some of the files
6	case maintained?	6	in the case?
7	MR. BADALA: Objection to form.	7	They're pretty voluminous, aren't
8	THE WITNESS: We tend not to print	8	they?
9	them out. Because the OARRS database is not a	9	A. Some of the OARRS files?
10	public record. And the medical examiner's file	10	Q. No. Some of the files of decedents,
11	in the in our office is accessible by	11	particularly if you have criminal
12	statute to next of kin, the entire file. So we	12	investigations?
13	don't print them out to keep them.	13	A. Varies. I mean some of them can be
14	I am not aware of whether there's,	14	very, very large, like the Shepherd case, which
15	you know, a file of OARRS reports in the	15	still comes up and is a prominent case in this
16	office. I don't know that. But I I haven't	16	part of the country. Those files are several
17	seen it.	17	folders.
18	BY MR. CHEFFO:	18	Q. Okay. So your testimony is you've
19	Q. So is it your testimony you've never	19	never presented out an an OARRS form, and
20	printed one out?	20	the reason why you didn't do that is you didn't
21	A. No.	21	want to waste paper, fair?
22	Q. Under what circumstances do you	22	MR. BADALA: Objection to form.
23	do you do that, and where do they go when you	23	THE WITNESS: You know, I'd
24	do?	24	appreciate it if that wasn't my answer and you
ı - ·		25	would be fair about what I said, which is

33 (Pages 126 - 129)

	Page 130		Page 132
1	that	1	Q. Checking OARRS and the information
2	BY MR. CHEFFO:	2	in OARRS is an important part of your
3	O. To save trees.	3	determination of cause of death in many cases;
4	MR. BADALA: Objection to form.	4	isn't that right?
5	BY MR. CHEFFO:	5	A. Not in many, no. I wouldn't say
6	Q. Didn't you?	6	that.
7	A. And because I gleaned the	7	Q. In what situations is it important
8	information I needed from the OARRS report	8	to check the OARRS data?
9	before I've decided that I did not need to	9	A. I think the OARRS data was very
10	printed it.	10	important to check with our heroin overdose
11	Q. Okay. And how but in order to	11	deaths because we were not you know, we had
12	determine let's assume that case became a	12	no compelling data, other than anecdotal data,
13	legal case or there was other some other	13	to say these people who were abusing heroin
14	purpose.	14	potentially got their start back with opioid
15	Wouldn't you want to know and and	15	pain medication.
16	and wouldn't wouldn't someone wouldn't	16	So it was very important I think to
17	someone want to be able to determine whether	17	go back and see how many of these individuals
18	there was OARRS information in the file?	18	had an OARRS file, how many of them had opioid
19	Isn't that a relevant piece of	19	prescribing, to document that, especially for
20	information?	20	our public health interventions.
21	MR. BADALA: Objection. Form.	21	Because, of the opioid pain reliever
22	THE WITNESS: They may.	22	phase of the crisis and then the heroin phase,
23	BY MR. CHEFFO:	23	we, you know, wanted to link those back. And
24	Q. Right.	24	the fentanyl phase as well.
25	In order and then, if you wanted	25	So we continue to look at OARRS data
	Page 131		Page 133
1	Page 131 to know it, every time, according to you, you'd	1	Page 133 on our drug overdose deaths. But in terms of
1 2		1 2	-
	to know it, every time, according to you, you'd		on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a
2	to know it, every time, according to you, you'd have to go back and sit at your computer and	2	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't
2 3	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS	2 3	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do
2 3 4 5 6	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right?	2 3 4 5 6	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the
2 3 4 5 6 7	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our	2 3 4 5 6 7	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information?
2 3 4 5 6 7 8	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our relationship with the Board of Pharmacy. They	2 3 4 5 6 7 8	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information? MR. BADALA: Objection to form.
2 3 4 5 6 7 8 9	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our relationship with the Board of Pharmacy. They do not want that data made public. That's the	2 3 4 5 6 7 8 9	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information? MR. BADALA: Objection to form. THE WITNESS: I don't memorize it,
2 3 4 5 6 7 8 9	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our relationship with the Board of Pharmacy. They do not want that data made public. That's the way the statute's written. And the corner	2 3 4 5 6 7 8 9	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information? MR. BADALA: Objection to form. THE WITNESS: I don't memorize it, but I don't print it either.
2 3 4 5 6 7 8 9 10	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our relationship with the Board of Pharmacy. They do not want that data made public. That's the way the statute's written. And the corner statute makes anything in the corner's file a	2 3 4 5 6 7 8 9 10	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information? MR. BADALA: Objection to form. THE WITNESS: I don't memorize it, but I don't print it either. BY MR. CHEFFO:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	to know it, every time, according to you, you'd have to go back and sit at your computer and look at it, right? One way of avoiding that would be to print it out and determine if there was OARRS data, right? A. But you're misunderstanding our relationship with the Board of Pharmacy. They do not want that data made public. That's the way the statute's written. And the corner statute makes anything in the corner's file a public document, at least to next of kin. So we cannot print them out and maintain that pledge to the Board of Pharmacy that these will not become public documents. So we do not print them, and we do not put them in our file. Q. So is it your testimony there's no mechanism to segregate that information from the file? MR. BADALA: Objection to form. THE WITNESS: I don't know I mean	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	on our drug overdose deaths. But in terms of the certification of those deaths, I wouldn't say we look at it that often to make a certification, if at all. Q. When you go back and look at it, do you print them out, or do you just sit at the computer and and memorize that information? MR. BADALA: Objection to form. THE WITNESS: I don't memorize it, but I don't print it either. BY MR. CHEFFO: Q. So you said you you went back and did a kind of a a back look, right, on OARRS data. Did I get that right? A. The office has, yes. Q. Okay. And when they A. Me and other designees. Q. When they did they did did when they did that, did they print it out, or did they make records of the OARRS data in order to do that analysis?

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	Page 134		Page 136
1	out.	1	didn't choose to look at that.
2	Q. So so tell me what you did.	2	And our crisis, as it was evolving,
3	Like what did you look at each	3	was initially with heroin when we detected it
4	case, and then you went back, and you	4	and subsequently fentanyl.
5	determined if there was an OARRS report?	5	Cocaine hadn't really changed over
6	A. We took the list of decedents	6	this period of time. And its relationship to
7	well, let's take 2013. We would take that list	7	previous prescribing opioid pain relievers
8	of decedents and send that to the Board of	8	wouldn't imply creating an addicted population
9	Pharmacy with our information identifying	9	of narcotics folks, opioid pain relieve or
10	information and ask them, "Do you have an OARRS	\$10	opioid dependent people. So we didn't look at
11	report on this individual?"	11	it.
12	And they would supply us with a	12	Q. What about methamphetamine; did you
13	yes-or-no answer and then the OARRS data that	13	ask for OARRS data about people who overdosed
14	we could then go back and analyze for	14	on meth?
15	prescribing so that did they have an OARRS	15	A. No. For the same reason. It's a
16	file, what was prescribed, was there evidence	16	stimulant. So we wouldn't know the relevance
17	of doctor shopping.	17	of OARRS data for the opioids with that regard.
18	And we would not print those out, as	18	Amphetamine is a controlled
19	I said. I didn't print them out myself.	19	substance that we could have gleaned from OARRS
20	Q. Yeah. Okay, Doctor.	20	data. But our methamphetamine deaths, as I
21	So you didn't print them out, but	21	say, you know, have been somewhere in the 10 to
22	somebody printed them out and sent them to you?	22	25 range for a long time. So that isn't, you
23	Is that what you're telling us?	23	know, the crisis that was really glaring at us
24	A. No. That's not what I'm saying at	24	in terms of solving that.
25	all.	25	Q. Well, you said fentanyl was a
1	Page 135		Page 137
1	Q. You said you sent a list to the	1	crisis, right?
2	Board of Pharmacy, right?	2	A. Fentanyl became a crisis, yes.
3	A. Right.	3	Q. Right.
	O A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
4	Q. And you asked them, "Are there"	4	And
5	"Are there any OARRS reports for any of the	5	And A. Not on this graph that you're
5 6	"Are there any OARRS reports for any of the people on the list," right?	5 6	And A. Not on this graph that you're showing me.
5 6 7	"Are there any OARRS reports for any of the people on the list," right? A. Right.	5 6 7	And A. Not on this graph that you're showing me. Q. At the graph I'm looking at, it
5 6 7 8	"Are there any OARRS reports for any of the people on the list," right? A. Right. Q. And and the list included	5 6 7 8	And A. Not on this graph that you're showing me. Q. At the graph I'm looking at, it it looks like it's the lowest of the the
5 6 7 8 9	"Are there any OARRS reports for any of the people on the list," right? A. Right. Q. And and the list included everybody who had a drug overdose.	5 6 7 8 9	And A. Not on this graph that you're showing me. Q. At the graph I'm looking at, it it looks like it's the lowest of the the five drugs.
5 6 7 8 9 10	"Are there any OARRS reports for any of the people on the list," right? A. Right. Q. And and the list included everybody who had a drug overdose. A. Right.	5 6 7 8 9	And A. Not on this graph that you're showing me. Q. At the graph I'm looking at, it it looks like it's the lowest of the the five drugs. So when did fentanyl become a
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,	D 120		D 140
1	Page 138 that having 399 deaths in 2016 or 492 deaths in	1	Page 140 A. 20 2006 is a an unusual year
2	2017 did.	2	for fentanyl. Because there was a distribution
3		3	of pharmaceutical fentanyl around the Great
	Q. Well, what about why wasn't the cocaine a crisis when it was probably in	4	Lakes. So we had a a unusually high number
4 5	2013 I don't know. What's the number?you		
5	•	5	that year.
6	know, 30 times more, 20 time 25 times more?	6	Q. But it was still less by orders of
7	Was cocaine a crisis over fentanyl?	7 8	magnitude than cocaine and heroin, right?
8	You had five case of fentanyl in 2013; you had 116 cases in in of cocaine,	9	A. Right. It was just higher at that number.
9			
10	right. Was cocaine a crisis?	10	Q. Okay. So the crisis you believe was identified and and occurred in 2 after
11		11	
12	MR. BADALA: Objection to form.	12	2015 for fentanyl?
13	THE WITNESS: Again, cocaine hasn't	13	A. Fentanyl I would say the crisis was
14	changed acutely.	14	identified in 2016, 2017.
15	MR. CHEFFO: That's not	15	Q. Okay. Now, let's go back to your
16	THE WITNESS: I think	16	request for OARRS data.
17	MR. CHEFFO: my question.	17	You looked at what year when you
18	THE WITNESS: it's a problem, but	18	went to the Board of Pharmacy?
19	I wouldn't necessarily say that the crisis here	19	Was it a single year?
20	had overwhelmed our capacity to respond to it.	20	A. We collect on we're in an ongoing
21	BY MR. CHEFFO:	21	collection of OARRS data. We I should say
22	Q. Did did the five cases of	22	that we started getting data from Board of
23	fentanyl overwhelm your ability?	23	Pharmacy with regard to OARRS for 2012 year.
24	A. No.	24	We continued to have access to OARRS as a
25	Q. Did the	25	coroner medical examiner, access. And just
1	Page 139		Page 141
1	A. And I I would say, you know, this	1	because we've had so many deaths, just
2	isn't really where we're looking at the fentanyl phase of the opioid crisis. So, you	2	Q. I'm listening. Go ahead.
1 2	tentanyl phase of the opioid crisis. So you		A A 0.01
3	* *	3	A. Are you? Okay.
4	know, the graph goes on beyond 2014 and rises	4	Just because we've had so many
4 5	know, the graph goes on beyond 2014 and rises dramatically for fentanyl in '15, '16, '17, and	4 5	Just because we've had so many deaths, we have fallen behind in our ability to
4 5 6	know, the graph goes on beyond 2014 and rises dramatically for fentanyl in '15, '16, '17, and remains up in '18.	4 5 6	Just because we've had so many deaths, we have fallen behind in our ability to look at OARRS data. But we've made our efforts
4 5 6 7	know, the graph goes on beyond 2014 and rises dramatically for fentanyl in '15, '16, '17, and remains up in '18. Q. So '15, '16, '17, that's when the	4 5 6 7	Just because we've had so many deaths, we have fallen behind in our ability to look at OARRS data. But we've made our efforts to stay as current as we can.
4 5 6 7 8	know, the graph goes on beyond 2014 and rises dramatically for fentanyl in '15, '16, '17, and remains up in '18. Q. So '15, '16, '17, that's when the the fentanyl crisis was?	4 5 6 7 8	Just because we've had so many deaths, we have fallen behind in our ability to look at OARRS data. But we've made our efforts to stay as current as we can. It's just that personnel-wise we
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	know, the graph goes on beyond 2014 and rises dramatically for fentanyl in '15, '16, '17, and remains up in '18. Q. So '15, '16, '17, that's when the the fentanyl crisis was? A. It's evolving over timing. So as I look back, I say, you know, this 2014 data is probably where, you know, retrospectively I can say that's starting the crisis here. Because the bulk of these 37 deaths were actually in the last two months of that year. And it rose nearly tripled in 2015, nearly tripled again in 2016. Q. Okay. A. And that's where our resource get overwhelmed. But, you know, if you're telling me in 2013 five deaths is a fentanyl crisis, I would say that wasn't really our thinking at	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Just because we've had so many deaths, we have fallen behind in our ability to look at OARRS data. But we've made our efforts to stay as current as we can. It's just that personnel-wise we don't have people. We just hired an epidemiologist into our office to sort to sort out some of these look-backs. Because our existing staff has really just been dedicated to our primary mission. And our ability to keep up with some of these things just really wasn't Q. Okay. A possible. Q. I want to ask some very just basic document questions. Okay? That's where I'm A. Okay. Q I'm going.

Page 142 Page 144 1 information about whether there is or was an 1 So when that wasn't clear -- I think 2 2 OARRS report? over time they realized that this was 3 potentially very useful information -- they 3 A. Yes. 4 give us a body of deidentified data 4 Q. Did it occur prior to 2012? 5 A. Or I'm sorry. You know, I -- I -- I 5 electronically for the 2012 overdoses. 6 Q. Do -- do some people in your office 6 misspoke there. 7 print out OARRS reports as part of their 7 In 2012 we asked about an OARRS file 8 investigation or autopsies? 8 specifically on our heroin overdose deaths. 9 9 A. I don't know. And that would continue to now. Q. Okay. 10 10 And then I don't remember when, but A. I -- I've seen printed OARRS 11 we have access to OARRS, and the intention is 11 reports, I can say. But whether that's a 12 to be able to look at our overdose deaths with 12 13 routine, I don't know. 13 fentanyl as well as heroin. 14 14 Q. Do you know the circumstances about Q. Okay. And I want to talk about 15 whether they are printed? 15 documents now, Doc. Just -- I'm just talking 16 about the documents, what the requests are made 16 A. No. Q. Do you know if they're kept in any 17 and -- and where they are. 17 18 uniform way? 18 So from -- when the requests were 19 A. I'm not aware --19 made for OARRS information from the Board of 20 Pharmacy, and they -- certain information was 20 MR. BADALA: Objection to form. THE WITNESS: -- of any OARRS file 21 21 sent back from the Board of Pharmacy to your that we have on our decedents. 22 22 office, correct? 23 BY MR. CHEFFO: 23 A. For a period of time. I mean now we 24 24 Q. If somebody has only cocaine as part have our list of decedents; we have access to 25 of their toxicological assay, and it's listed 25 OARRS; and we can go and do our own searches. Page 143 Page 145 1 We don't have to have the intermediate step of as the cause of death, is an OARRS report or 1 2 having --2 query done? 3 Q. Right? 3 A. If it was just a straight overdose A. -- pharmacy approve. 4 4 with cocaine, we would not do an OARRS check on 5 In fact, you know, as I sit here, 5 that. We started with the heroin overdoses, 6 the only year I really remember us having that and then we added the fentanyl overdoses when 6 7 need to have pharmacy provide the data us to 7 they became more significant. 8 was 2012. And we got access in 2013 because 8 We do send a list of our 9 there was a lot of back and forth about why we 9 prescription opioid deaths where they appear on 10 needed access. 10 the death certificate to the Department of 11 O. Uh-huh. Health. But I don't know, beyond that, what 11 12 A. And that was transmitted 12 they do in terms of looking into OARRS data or 13 electronically from pharmacy to us. It was 13 not. 14 deidentified in some regards. 14 Q. And why is it that you don't do an 15 Beyond that, 2013, we get access to 15 OARRS report in connection with a -- a cocaine OARRS. And it's a database; it's a web site. death? 16 16 17 We can go and look up our own cases. 17 A. For the reasons that I mentioned 18 So I don't know, as I sit here 18 before. Our cocaine deaths have been stable 19 today, whether they were actually sending 19 over a period of time. So we're trying to 20 electronic files after 2013. They did for 2012 20 respond to the crisis to design public health 21 because there was the issue about whether, as 21 interventions to reduce deaths related to 22 22 initially heroin and then fentanyl. an office, the medical examiner, because I don't have a prescription -- pardon me -- a DEA 23 The relationship pharmacologically 23 24 number to prescribe narcotics, whether I was 24 between opioid pain relievers, heroin and 25 going to get access to OARRS. 25 fentanyl, is clear. They act on the same

37 (Pages 142 - 145)

	Page 146		Page 148
1	receptor in the brain. Cocaine does not.	1	certification.
2	So seeing whether somebody with	2	BY MR. CHEFFO:
3	cocaine had an opioid pain reliever	3	Q. So is it your testimony that your
4	prescription before, I don't know how that	4	investigators don't check OARRS reports as a
5	would inform a public health initiative in	5	matter of course with respect to fentanyl or
6	terms of drug drop boxes or trying to get	6	heroin or other opioid overdoses?
7	people to have less access to the opioid pain	7	MR. BADALA: Objection.
8	relievers.	8	THE WITNESS: My scene
9	Q. So, Doctor, putting aside what other	9	investigators?
10	uses, there OARRS in your when you're	10	BY MR. CHEFFO:
11	doing an individual autopsy let's just talk	11	Q. Yeah.
12	about you as a forensic doctor doing an	12	Anyone who is involved in the
13	autopsy.	13	autopsy and the report, is it part of their
14	There is a reason why you do an	14	standard practice and procedures or not?
15	OARRS query in some cases in order to determine	15	MR. BADALA: Same objection.
16	or help you assist in your investigation and	16	THE WITNESS: I think you're
17	preparing your report; is that fair?	17	confusing me.
18	A. That would be very rare, if I	18	The autopsy is kind of what I do at
19	can't remember ever doing it to finish a death	19	the autopsy table. The investigation is the
20	investigation, which by "finish" I would	20	sum
21	say, you know, write a cause of death, death	21	MR. CHEFFO: Okay.
22	certificate, issue a final of report. These	22	THE WITNESS: of things to get to
23	were more retrospective looks after we had	23	that point where I write a death certificate.
24	certified deaths.	24	And we are not checking OARRS
25	Q. What about as part of the	25	reports at that time usually. There may be
	Page 147		Page 149
1	Page 147 investigation?	1	Page 149 exceptions where we do, like the case I
2	investigation? So, for example, let's assume	1 2	
2 3	investigation? So, for example, let's assume someone had an overdose of fentanyl.		exceptions where we do, like the case I
2 3 4	investigation? So, for example, let's assume	2	exceptions where we do, like the case I mentioned.
2 3 4 5	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and	2 3	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way
2 3 4 5 6	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the	2 3 4 5 6	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that.
2 3 4 5 6 7	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death	2 3 4 5	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by
2 3 4 5 6 7 8	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right.	2 3 4 5 6 7 8	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates
2 3 4 5 6 7 8 9	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person	2 3 4 5 6 7 8 9	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the
2 3 4 5 6 7 8 9	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether	2 3 4 5 6 7 8 9	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they
2 3 4 5 6 7 8 9 10	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the	2 3 4 5 6 7 8 9 10	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a
2 3 4 5 6 7 8 9 10 11 12	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic.	2 3 4 5 6 7 8 9 10 11 12	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation.
2 3 4 5 6 7 8 9 10 11 12 13	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation?	2 3 4 5 6 7 8 9 10 11 12 13	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in
2 3 4 5 6 7 8 9 10 11 12 13 14	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form.	2 3 4 5 6 7 8 9 10 11 12 13 14	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	so, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	investigation? So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	so, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids, cocaine. It may be just powder there.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I understand. I think I do.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	so, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids, cocaine. It may be just powder there. And, you know, checking an OARRS	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I understand. I think I do. What you're saying to us is that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids, cocaine. It may be just powder there. And, you know, checking an OARRS report at that time would be really premature	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I understand. I think I do. What you're saying to us is that OARRS reports may be queried, and it's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	so, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids, cocaine. It may be just powder there. And, you know, checking an OARRS report at that time would be really premature and just you know, we're already strained on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I understand. I think I do. What you're saying to us is that OARRS reports may be queried, and it's primarily for retrospective public health
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So, for example, let's assume someone had an overdose of fentanyl. Would it be kind of standard practice for you were the investigator, and there was no indicia, you know, at the the site of death A. Right. Q to determine whether this person had a prescription for fentanyl or whether there was no prescription so that the assumption might be that it was a synthetic. Is that part of your investigation? MR. BADALA: Objection to form. THE WITNESS: I have to say, you know, when we're on scene at a death, it may look like an overdose. We don't have that degree of specificity what might be involved there. You know, I don't know if it's opioids, cocaine. It may be just powder there. And, you know, checking an OARRS report at that time would be really premature	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	exceptions where we do, like the case I mentioned. Most of the checks that we've done on OARRS have been done retrospectively after deaths were certified. And that's just the way our staff is, you know, able to do that. Those checks, you know, are done by delegates. And I believe one of my delegates is a senior investigator. But most the investigators do not do that. And they certainly wouldn't be doing it at the time of a scene investigation. Or, you know, just the work flow in our office, to go from scene investigation, usually autopsy is the next day or within a day or two of that. We wouldn't be checking OARRS in that time frame. BY MR. CHEFFO: Q. So let let me see if I understand. I think I do. What you're saying to us is that OARRS reports may be queried, and it's

	D 150		D 152
1	Page 150 connection with a death investigation or	1	MR. CHEFFO: Both.
1 2	creation of an autopsy report.	2	THE WITNESS: In term of
3	Is that fair?	3	certification of death, I I don't think it
4	A. It would be the rare instance where	4	would be very relevant. In terms of public
5	we would do that. It's more retrospective	5	health interventions, yeah, doctor shopping is
6	look. And again, the targeted purpose of that	6	something we should be trying to monitor and
	is to design interventions to try to address	7	pick up.
7	,	8	BY MR. CHEFFO:
8	the number of people who are dying.	9	Q. And if you if you did an OARRS
9	Q. So in order to determine, for	10	· · · · · · · · · · · · · · · · · · ·
10	example is checking the OARRS database one	11	someone spent the five minutes or so doing an OARRS check in connection with overdoses
11	way that you would determine whether someone	12	
12	was doctor shopping?		involving heroin or fentanyl or other opioids,
13	A. Yes.	13	and you identified doctor shopping, you would
14	Q. And and that's not typically done	14	presumably refer that to the appropriate
15	at the time of death or when you're doing your	15	authorities?
16	investigation or autopsy report; is that right?	16	A. Right. As I mentioned before, when
17	A. That's right.	17	we identify doctor shopping, we don't refer the
18	Q. And can you see a benefit of doing	18	prescribers, we refer the decedent to the Board
19	it at that time?	19	of Pharmacy for further investigation.
20	A. I mean the sooner you identify it,	20	Q. You would agree that not every
21	the better. But it comes down again to	21	person who has overdosed on heroin has ever
22	resources in our office. I don't have you	22	taken a in Cuyahoga County has taken a
23	know, we're overwhelmed with everything that's	23	prescription medicine, right?
24	going on in a lot of ways.	24	A. I don't know for certain, but I
25	So, you know, asking people to do	25	suspect that's true.
	Page 151		Page 153
1	that at the time of investigation would result	1	Q. If you wanted to to know that,
2	that at the time of investigation would result in us doing a lot of OARRS checks on people who	2	Q. If you wanted to to know that, you would look at the OARRS database?
2 3	that at the time of investigation would result in us doing a lot of OARRS checks on people who don't have heroin or fentanyl in their system.	2 3	Q. If you wanted to to know that, you would look at the OARRS database? That would be one way?
2 3 4	that at the time of investigation would result in us doing a lot of OARRS checks on people who don't have heroin or fentanyl in their system. We would be guessing, you know, what drug was	2 3 4	Q. If you wanted to to know that, you would look at the OARRS database? That would be one way? A. The ideal way is actually to ask the
2 3 4 5	that at the time of investigation would result in us doing a lot of OARRS checks on people who don't have heroin or fentanyl in their system. We would be guessing, you know, what drug was potentially involved.	2 3 4 5	Q. If you wanted to to know that, you would look at the OARRS database? That would be one way? A. The ideal way is actually to ask the person, but obviously we can't do that. So one
2 3 4 5 6	that at the time of investigation would result in us doing a lot of OARRS checks on people who don't have heroin or fentanyl in their system. We would be guessing, you know, what drug was potentially involved. Q. Not my question though.	2 3 4 5 6	Q. If you wanted to to know that, you would look at the OARRS database? That would be one way? A. The ideal way is actually to ask the person, but obviously we can't do that. So one of the things that we try to do is to go back
2 3 4 5 6 7	that at the time of investigation would result in us doing a lot of OARRS checks on people who don't have heroin or fentanyl in their system. We would be guessing, you know, what drug was potentially involved. Q. Not my question though. So let's let's talk about heroin	2 3 4 5 6 7	Q. If you wanted to to know that, you would look at the OARRS database? That would be one way? A. The ideal way is actually to ask the person, but obviously we can't do that. So one of the things that we try to do is to go back and look at the OARRS database to see if they
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Page 154 Page 156 1 Q. Wouldn't there be anything that 1 MR. BADALA: Objection to form. 2 would raise a suspicion? 2 THE WITNESS: I -- I believe so. 3 MR. BADALA: Objection to form. 3 And I think, you know, the entry of fentanyl 4 THE WITNESS: Again, the criteria 4 into the African-American population coincided 5 that we used for our reporting I think were 5 with seeing more mixtures of fentanyl and 6 things that we identified as potentially 6 cocaine. And cocaine was a drug that we 7 suspicious. 7 traditionally saw more in the African-American 8 BY MR. CHEFFO: 8 population. 9 9 Q. Well, if you were to look at OARRS So again, I can't -- can't talk to 10 data, and you were to see prescriptions being 10 the guy after they've passed away. But, you 11 filled from the same doctor or facility, pill know, that certainly suggested to us that the 11 12 mill, and you saw, you know, every -- every infiltration of fentanyl into the cocaine 12 13 week new prescriptions that appeared to you to 13 market was pushing mortality and may have been 14 be well beyond customary doses or frequency, something that these folks were not expecting. 14 15 isn't that how you might identify a pill mill? We did issue an alert to that effect 15 16 MR. BADALA: Objection to form. from our office. 16 17 THE WITNESS: I don't know. I... 17 BY MR. CHEFFO: 18 BY MR. CHEFFO: 18 Q. And in that situation, if that did 19 Q. Do you have any idea how you might 19 occur, that would be listed as both a cocaine 20 identify pill mill activity? 20 and fentanyl death? 21 A. As I say, it's more of a law 21 A. Again, you know, I'd have to see the 22 enforcement function, I would think. 22 sum of the investigation. But we have 23 Q. So the answer is no, that's not in certified deaths like that as a combined 23 24 vour expertise? 24 cocaine and fentanvl overdose. 25 No. I wouldn't say so. 25 And -- and if someone takes their Page 155 Page 157 1 Q. Do you think that detection of life and commits suicide by overdose, is --1 2 illicit fentanyl is -- is undercounted and is -- is -- is that counted as a opioid death 2 3 underreported? 3 if it involved, in whole or part, opioids? 4 A. I don't know. It may be. A. We would count it as a -- an opioid 4 Q. Are you aware of situations where 5 5 death. For this data we tried to I think look there have been decedents who purchased or --6 6 at our accidental deaths, as I understand it. 7 or used what they believed was cocaine and it 7 We didn't use the suicide designations. 8 was laced with another chemical, like 8 Q. Are you -- are your -- you're aware 9 carfentanil or fentanyl? of how your office counts and treats suicide 9 10 MR. BADALA: Objection to form. 10 deaths from -- from overdose, correct? THE WITNESS: We -- we can only 11 11 A. Yes. 12 infer that. But short of asking them what they 12 O. Is it consistent with what the --13 were intending to use, I can't say that with the state Department of -- of Health does, or 13 14 certainty. 14 do you vary in how you count suicides? 15 BY MR. CHEFFO: 15 A. I don't know what the state 16 Q. Well, I mean even anecdotically, is 16 Department of Health does. Our practice is in 17 that something in your work that -- that's in 17 keeping with, you know, our professional your conversations with law enforcement and 18 18 organization and standards, that they are 19 family and investigation reports? 19 recommendations they make. 20 You know, someone says, "I talked to 20 And I'm not aware of the state 21 Johnny, who was there. We thought we were 21 promulgating standards about suicide and 22 using cocaine. We had no idea we were using determination of suicide. 22 23 fentanvl." 23 Q. What -- what professional 24 Has anything like that come up in 24 organizations do you follow with respect to how 25 Cuyahoga County? 25 you treat an account for suicides?

1	Page 158	,	Page 160
1	A. There are guidelines from the	1	THE VIDEOGRAPHER: We are back on
2	National Association of Medical Examiners with	2	the record.
3	regard to death certification. And I think,	3	This is the beginning of Media Unit
4	you know, we're all familiar with those in the	4	No. 3.
5	office, myself and the other certifiers.	5	The time is 12:11.
6	Q. Any other promulgating entities or	6	You may proceed, Counsel.
7	rules?	7	BY MR. CHEFFO:
8	A. That's probably the guiding one, I'd	8	Q. Now, Doctor, earlier you you
9	say, on a lot of things. There's papers	9	mentioned you brought up a person by the
10	written about, you know, death certification.	10	name of Carole Rendon.
11	And I would say, you know, some of that can be,	11	Do you remember that?
12	you know, in the common knowledge.	12	A. Yes, I do.
13	But I think, as a document, the	13	Q. Who is she?
14	classification of manners of death is probably	14	A. She is our U.S. Attorney. She was
15	the one that's most often used.	15	the deputy or sorry the first deputy when
16	Q. Do you know in whether you	16	I met her. Then she became U.S. Attorney.
17	account for, from a statistics perspective,	17	And now Justin Hurdman is our
18	overdose deaths by suicide in the same way that	18	attorney. So I I've had three since I got
19	Summit County does?	19	here.
20	MR. BADALA: Objection to form.	20	Q. And how many times did you meet with
21	THE WITNESS: I don't know.	21	her?
22	BY MR. CHEFFO:	22	A. Oh, any number of times. I mean she
23	Q. Do you know do you have any	23	would be chairing the task force. I yeah.
24	visibility or insight into how Summit, Akron or	24	We'd chat with her.
25	Cleveland operates their medical examiner	25	MR. PORTER: Excuse me. The phone
	Page 159		Page 161
1	Page 159 offices?	1	Page 161 are still muted.
1 2		1 2	
	offices?		are still muted.
2	offices? MR. BADALA: Objection to form.	2	are still muted. MR. CHEFFO: Sorry. Thank thanks
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	Page 162		Page 164
1	would be a good thing to put out for my	1	A. I just I heard "other U.S.
2	professional community. And Carole and the	2	Attorneys" too.
3	other fellow's name was Joe Pinjuh were very	3	Q. Where when you discussed the
4	helpful in	4	prosecutions, were they for specific pending
5	Q. Okay.	5	cases, or did you speak in general terms?
6	A that part of the process.	6	MR. BADALA: Objection to form.
7	Q. Doctor, I'm going to ask that you	7	THE WITNESS: Both.
8	listen to my questions.	8	BY MR. CHEFFO:
9	I asked you specifically how many	9	Q. Okay. And were they against
10	times did you meet with Ms. Rendon in	10	individuals?
11	connection with the prosecution. And I think	11	A. I don't remember the details of the
12	you told me you remembered one, and then there	12	case we discussed. But there was upcoming
13	were subsequent	13	prosecution.
14	A. Well, I I'm sorry.	14	Q. Were they any of the defendants in
15	Q. No.	15	this case?
16	A. Finish your question.	16	A. No. No, they were not. That's my
17	Q. Is it one?	17	understanding, I should say. I don't know for
18	A. In answering your question, what I'm	18	certain who we were talking about. But I
19	saying is we met once, I remember specifically,	19	didn't have the understanding they were the
20	to discuss	20	defendants in this case.
		20	
21	Q. Okay.		Q. And how many times did you meet with
22	A you know, prosecutions. We met	22	Ms. Rendon and other members of the U.S.
23	subsequently to talk about the publication of	23	Attorney's Office outside of the context of the
24	that article, which is very much related to	24	Heroin and Opioid Task Force?
25	prosecutions.	25	A. I don't remember.
1	Page 163 And in terms of other U.S.	1	Q. Is it more than one?
	And in terms of other U.S.	1 I	Q. Is it more than one:
	A ttomasva		`
2	Attorneys	2	A. Yes.
3	Q. That's	2 3	A. Yes. Q. Is it more than five?
3 4	Q. That'sA I've met with a handful of them	2 3 4	A. Yes.Q. Is it more than five?A. I don't remember.
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1	Page 166	1	Page 168
1	them about the interpretation of toxicology	1	the room. The discussions I had subsequent
2	findings that would potentially have an impact	2	with Carole Rendon with regard to our
3	on meeting that burden of proof.	3	publication, Joe Pinjuh would have been
4	Q. And and is it your recollection	4	involved in them as a coauthor. But who was in
5	that, during that meeting, the U.S. Attorney's	5	that room I honestly do not remember.
6	Office and and the lawyers there provided	6	Q. Was it just her, or do you remember
7	your office with information about that case,	7	there being other people there?
8	Burrage versus the United States?	8	A. I seem to remember other people were
9	A. They discussed it. They would have	9	there. It wasn't just Carole and I sitting
10	mentioned it. I don't know that they handed me	10	there.
11	a pardon me a decision. I did	11	Q. Was Mr. Shannon there?
12	subsequently get a copy of that and read it,	12	A. I don't remember who was actually
13	but I don't remember if it was around that time	13	there.
14	or not.	14	Q. And after that meeting, is that when
15	Q. I mean it's fair to say you weren't	15	you decided to coauthor an article with Ms.
16	providing them information about a legal case,	16	Rendon and Mr. Pinjuh?
17	were you?	17	A. No.
18	MR. BADALA: Objection to form.	18	Q. You had decided to talk to write
19	THE WITNESS: Boy, that would be	19	an article about the the Burrage decision
20	scary. No, it was not.	20	prior to that?
21	BY MR. CHEFFO:	21	A. Oh, oh, I'm sorry. I thought you
22	Q. And and have you ever heard of	22	meant like right after that meeting did we
23	Craig Tame?	23	decide to
24	A. Yes, I have.	24	Q. Well, at some point after it, right?
25	Q. Who is he?	25	A. At some time after that, yes. It
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	Page 167		Page 169
1	Page 167 A. He is one of the U.S. Attorneys.	1	Page 169 wasn't right afterwards though. I'm sorry. I
1 2		1 2	
	A. He is one of the U.S. Attorneys.		wasn't right afterwards though. I'm sorry. I
2	A. He is one of the U.S. Attorneys. And I've interacted with him in his capacity on	2	wasn't right afterwards though. I'm sorry. I misunderstood you.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. He is one of the U.S. Attorneys. And I've interacted with him in his capacity on the task force, especially the U.S. Attorney's task force. Q. And what about Mike Tobin; have you heard of him? A. Yes, I have. Q. And who is he? A. Mike is another one of the U.S. Attorneys. I know he does a lot of the kind of media outreach and things. I don't know exactly what his role is in the office. I don't really know what Craig's is either. Just I know them to be in the U.S. Attorneys office. But I do know both of them. Q. And do you know who Joe Pinge Pinjuh is? A. Yes, I do. He was actually the guy I mentioned as the third author on the paper that Carole Rendon and I wrote for my professional journal. Q. And were Mr. Tame, Mr. Tobin and Mr. Pinjuh present when you met with Ms. Rendon	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	wasn't right afterwards though. I'm sorry. I misunderstood you. Q. And it was published in a a journal that's available to the public? A. Yes. Q. That's the the Journal of Forensic Examiners, right? A. It's the journal called Academic Forensic Pathology. Q. And and it's for forensic examiners though, right? A. It's for death investigators. It's at the time it was the official journal of the National Association of Medical Examiners. Q. And the purpose of of that article was to share to the public the information that the members of the attorneys generals' office had provided to you in connection with the the Burrage case; is that right? MR. BADALA: Objection to form. THE WITNESS: I I think it was to
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Page 172 1 proof for a death specification prosecution on 1 and I've been pretty good. 2 the federal level wasn't something I was aware 2 Q. The -- the task included doctors, 3 3 right? 4 And I thought that my colleagues 4 A. There were some doctors there. 5 would be interested in knowing that burden of 5 Representative of the major hospitals would be proof and how it would relate to our 6 6 there. 7 7 O. Elected officials? interactions. 8 Because at this time, you know, our 8 A. Doctors. I would say, you know, 9 county is becoming, in a lot of ways, a model 9 Ph.D.-level people level as well. for a lot of responses to the opioid crisis. 10 I've -- are you talking about 10 11 And, you know, other U.S. Attorney's offices I 11 physicians? 12 think were looking at the prospect of doing 12 Q. Either way. 13 these prosecutions. 13 I mean tell me if this is fair: The 14 And I felt my colleagues would 14 task force included doctors, elected officials, 15 probably be interacting with them as well, and 15 educators, individuals in recovery, and other it would be a useful article to kind of 16 private citizens. 16 17 acquaint them with, you know, here's what's MR. BADALA: Objection to form. 17 18 kind of driving the strategy behind those 18 THE WITNESS: I didn't know that 19 prosecutions. 19 there were specific people present as private 20 Q. Right. 20 citizens. But obviously we -- the majority of 21 So the sum and substance was there 21 us are citizens within Cuyahoga County. 22 was this Supreme Court case, and the -- the 22 BY MR. CHEFFO: 23 prosecutors came in and -- and shared 23 Q. And did you regularly share 24 information to you; you found that interesting information -- you or your office share 24 and thought that that would be interesting, 25 information with the task force regarding 25 Page 171 Page 173 1 that others in your position might find 1 opioid abuse issues and statistic? 2 2 interesting and useful; and that's why you then A. We have a designated time in most of 3 3 decided as a group to coauthor a piece. the task force meetings to present data like 4 this kind of graph that I have in front of me Isn't that the sum and substance of 4 5 5 and what we're seeing. what happened? 6 There may be other information from 6 MR. BADALA: Objection to form. the crime laboratory that we also oversee that 7 THE WITNESS: I think that's a fair 7 8 statement on my end, that I wanted to kind of 8 might get presented there as well. 9 Q. Would that include trends and other 9 bring that message to my colleagues who might 10 information that you were seeing? 10 not be familiar with it, as I wasn't familiar A. Sure. Yes, it would. 11 really before we had discussed strategies, in 11 Q. And that would be presented to the 12 terms of their needs for prosecution. 12 13 13 entire group, right? BY MR. CHEFFO: 14 A. Yes, it would. 14 Q. And the goal was to publicize this 15 information because you thought it was 15 Q. And if you saw things about an advent or an increase in carfentanil or interesting from a public perspective to have 16 16 17 that and useful, right? 17 adulterated drugs or things that you were seeing that you thought would be informative 18 A. A potential useful thing for 18 for the public and others to know, that would somebody in my shoes in another jurisdiction. 19 19 Q. Did you and Mr. Shannon routinely 20 be the type of thing that you would report on, 20 21 21 attend meetings of U.S. Attorney's Heroin and correct? 22 Opioid Task Force? 22 A. As it impacted mortality data, yes. 23 23 A. He's a better attendee. By that I Uh-huh. 24 mean Hugh Shannon. I attend as many as I can. 24 And -- and -- and much of this 25 information was also being shared in press He's been very consistent in his attendance,

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	D 174		D 17(
1	Page 174 releases or publications that you were putting	1	Page 176 THE WITNESS: The department has
2	out or putting on your your web site in	2	been, yes.
3	terms of statistics and other data; is that	3	BY MR. CHEFFO:
4	light?	4	Q. And and have you or the
5	A. Yeah. The press releases I think	5	department ever retained Ms. Rendon to
6	would usually be used to address things that we	6	represent you as a lawyer?
7	had in desire to inform the public about	7	MR. BADALA: Objection to form.
8	something that was a significant trend.	8	THE WITNESS: I have not. I don't
9	We have a monthly bulletin, if you	9	the department has not.
10	will, about what we're seeing in the office in	10	BY MR. CHEFFO:
11	trends. That forms frequently the basis of the	11	Q. And were there multifaceted efforts
12	presentation at the U.S. attorney's task force.	12	to combat the opioid crisis?
13	We've discussed it at the Board of Health task	13	MR. BADALA: Objection to form.
14	force as well. The data is the data.	14	THE WITNESS: I think, you know, we
15	But I think we put a lot of	15	have a lot of people in the county working to
16	information out. And just some of it, you	16	address, you know, what is just a public health
17	know, targeted towards the public; some of it	17	emergency. So multifaceted. I would look at
18	targeted to other audiences.	18	law enforcement, our medical communities, our
19	Q. But but but this information	19	medical examiner's office, treatment folks.
20	was largely available in various forms; either	20	Yeah. Yes.
21	you had given testimony or press releases or it	21	BY MR. CHEFFO:
22	was on your web site, right?	22	Q. And are they still ongoing?
23	There was no this wasn't super	23	A. Yes. Because the crisis is not
24	secret information, was it?	24	over.
25	A. Not this information, no.	25	Q. And when did they begin?
	Page 175		Page 177
1	Q. The medical examiner's budget,	1	MR. BADALA: Objection to form.
2	that's, I take it, a public record?	2	THE WITNESS: When did
3	A. Yes. I believe so.	3	BY MR. CHEFFO:
4	Q. And and as for the Cuyahoga	1	
	Q. Tina and as for the Cayanoga	4	Q. The multifaceted efforts to combat
5	County medical examine examiner, do you know	5	Q. The multifaceted efforts to combat the opioid situation, the crisis, is that
5 6		-	2
	County medical examine examiner, do you know	5	the opioid situation, the crisis, is that
6	County medical examine examiner, do you know whether you were represented by the law	5 6	the opioid situation, the crisis, is that something that's been ongoing for a long time?
6 7	County medical examine examiner, do you know whether you were represented by the law department or law director, members of the law department? MR. BADALA: Objection to form.	5 6 7	the opioid situation, the crisis, is that something that's been ongoing for a long time? a short time?
6 7 8	County medical examine examiner, do you know whether you were represented by the law department or law director, members of the law department?	5 6 7 8	the opioid situation, the crisis, is that something that's been ongoing for a long time? a short time? When did start? MR. BADALA: Objection to form. THE WITNESS: With my involvement, I
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45 (Pages 174 - 177)

	Page 178		Page 180
1	death review committee with lots of different	1	that's a risk they are taking.
2	representation. You know, since then the	2	BY MR. CHEFFO:
3	summits, both of them, with the U.S. Attorney's	3	Q. Is all of the information in your
4	office.	4	file available to the public?
5	I'd be reluctant to say, you know,	5	MR. BADALA: Objection to form.
6	this was the absolute date we started to	6	BY MR. CHEFFO:
7	address the heroin crisis or the heroin phase	7	Q. When you do a an autopsy and
8	of the opioid crisis.	8	report and investigation of a of a death?
9	I don't know firsthand, you know, if	9	A. The autopsy report is a public
10	there were efforts going on beforehand in the	10	document in Ohio. There's also a verdict that
11	county. But I'm just not familiar with I	11	we generate as a statutory piece. And the
12	wasn't aware of them particularly.	12	toxicology report is available at my
13	Yeah. Best I best I could deal	13	discretion. We usually release that.
14	with that.	14	The investigative report is not
15	MR. CHEFFO: Okay. Break?	15	considered a public document. But the way the
16	MR. BADALA: Yeah.	16	statute is written, in Ohio, next of kin can
17	MR. CHEFFO: Okay.	17	have access to any document in our file. So
18	THE VIDEOGRAPHER: We are going off	18	what they do with that and if they disseminate
19	the record.	19	that publicly, we can't stop.
20	The time is 12:28.	20	But the law spells out like
21	(A lunch recess was taken.)	21	journalists can't see everything in our file
22	THE VIDEOGRAPHER: We are back on	22	necessarily. And yeah. I think hope I
23	the record.	23	answered your question.
24	The time is 1:14.	24	Q. You did.
25	You may proceed, Counsel.	25	So as a general matter, let's say a
1	Page 179	1	Page 181
1	BY MR. CHEFFO:	1	journalist was interested in a particular
2 3	Q. Dr. Gilson, you would agree with me	2 3	death, and they sent a letter either just a cordial letter under some kind of FOIA, Freedom
4	that trying to understand or determine the)	
		1	of Information, saving "We'd like all materials
	intent or reasoning or motivations of someone	4 5	of Information, saying "We'd like all materials
5	who was using an opioid who overdosed is	5	in connection with your investigation or review
5 6	who was using an opioid who overdosed is challenged by the fact that they're they've	5 6	in connection with your investigation or review or determination of death for Mr. Smith."
5 6 7	who was using an opioid who overdosed is challenged by the fact that they're they've expired, just like you testified earlier with	5 6 7	in connection with your investigation or review or determination of death for Mr. Smith." What would they what would they
5 6 7 8	who was using an opioid who overdosed is challenged by the fact that they're they've expired, just like you testified earlier with someone who died of a cocaine overdose?	5 6 7 8	in connection with your investigation or review or determination of death for Mr. Smith." What would they what would they typically get?
5 6 7 8 9	who was using an opioid who overdosed is challenged by the fact that they're they've expired, just like you testified earlier with someone who died of a cocaine overdose? A. I mean they're intending to use	5 6 7 8 9	in connection with your investigation or review or determination of death for Mr. Smith." What would they what would they typically get? What types of information would they
5 6 7 8 9 10	who was using an opioid who overdosed is challenged by the fact that they're they've expired, just like you testified earlier with someone who died of a cocaine overdose? A. I mean they're intending to use drugs, for the most part, if I understand your	5 6 7 8 9 10	in connection with your investigation or review or determination of death for Mr. Smith." What would they what would they typically get? What types of information would they get from your office?
5 6 7 8 9 10 11	who was using an opioid who overdosed is challenged by the fact that they're they've expired, just like you testified earlier with someone who died of a cocaine overdose? A. I mean they're intending to use drugs, for the most part, if I understand your question. I wouldn't think that they were	5 6 7 8 9 10 11	in connection with your investigation or review or determination of death for Mr. Smith." What would they what would they typically get? What types of information would they get from your office? A. You know, I've worked in different
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Page 182 Page 184 1 journalist exception. the state Board of Health? 2 But that's my understanding of it. 2 A. Which --3 They get to see more things, including like my 3 Q. You -- you mentioned the Board of 4 investigator's report, as long as it doesn't Health task force -- heroin task force. 5 impact a criminal investigation. 5 A. Right. That's the Cuyahoga County Q. And that's just what I'm trying to 6 6 Board of Health. 7 understand. I mean you're -- you're the expert 7 Q. Okay. 8 in this. And I have a, you know, general 8 A. That was through their injury 9 understanding of the files, and I've looked prevention program. 10 through them. 10 Q. And in 2011 there were 107 instances 11 But is the only thing that is where someone who overdosed had heroin in their 11 12 different, nonpublic, is that the system and 98 where they had cocaine, is that 12 13 investigator's report in the file and maybe the right, based on the --13 14 tox studies or anything else that would be not 14 A. If I can just take a look quickly. 15 available to the public but either available to 15 Yes. 16 a journalist or next of kin? 16 Q. Now --17 Again, as I say, everything's 17 2011. I'm sorry. That was the 18 available to next of kin. But things like 18 year? hospital records, police reports and things 19 19 O. Right. That's what I said. 20 like that we usually don't share because it's 20 A. I just wanted to make sure. 21 not our primary work product. 21 Q. And if you just look at for a minute 22 We don't share investigative report 22 the -- the cocaine deaths in Exhibit 1 on -- on 23 because it's a preliminary investigative 23 Page 4 in the red line. 24 report. So that's not a public document. 24 You with me, right? 25 You know, some files have other 25 A. Uh-huh. Yes, I am. Page 183 1 things in them that -- I can't be exhaustive on 1 Q. Now, you mention that in I believe 2 what's public, what's not. 2 2016 there was an increase above baseline in 3 But certainly the law is written in 3 cocaine-related overdose deaths that you Ohio, next of kin, if they want to see what's 4 4 attributed to fentanyl. 5 5 in the medical examiner or coroner's file, they Is that accurate? can see what's in there. 6 A. Yes. 6 7 Q. Okay. Can you turn back to Exhibit 7 Q. And is it then fair to say that the 8 1 for a minute. 8 baseline of cocaine deaths prior to that point 9 Let me just you ask this: First of 9 were not associated with opioids or fentanyl? 10 all, is there a -- is there currently a cocaine 10 A. I don't think I could say that. 11 Because I know that, the way this graph is 11 12 generated, if cocaine appears on the death MR. BADALA: Objection to form. 12 13 THE WITNESS: Not that I'm aware of. certificate, it would be in that red line. 13 14 14 Whether it was mixed with opioid pain BY MR. CHEFFO: 15 Q. Has there ever been one in Cuyahoga? 15 relievers, heroin, fentanyl, I wouldn't know --Not since I've been here. 16 A. 16 Q. Okay. 17 O. When was the heroin task force 17 A. -- based on looking at this. And I don't know that answer either right now. 18 initiated? 18 19 A. Well, there's the two. So the Board 19 Q. Well, based on your -- your -- your 20 of Health I -- I think it's 2011 or 2010. The 20 time at the department, are -- are you -- is it 21 21 your view that, prior to the 2016 spike in the U.S. Attorney's task force I believe started 22 after the Summit, which would have been in 22 cocaine deaths, the -- the driver or the 23 baseline of cocaine use and overdose had 23 November 2013. 24 Q. So 2011, when you say the Board of 24 nothing to do with opioids? Health, that's the county Board of Health or 25 25 MR. BADALA: Objection to form.

Page 188 Page 186 1 THE WITNESS: I don't know that I 1 Q. What do you mean by that? 2 could say that. 2 A. In terms of looking at the opioid 3 BY MR. CHEFFO: crisis now from kind of a public health 3 4 Q. Can you say that it did have perspective, CDC has written about the phases 4 5 anything to do with opioids? 5 of the heroin -- or not the heroin -- the A. No. I could not say either way. I 6 6 opioid crisis. 7 haven't really looked at that. We focused more 7 And those phases are kind of in an 8 on it when we saw the rise that we saw in 2016 initial phase with opioid pain relievers, our 9 and compared it to the baseline again when we heroin phase, and a fentanyl and fentanyl 10 factored out the contribution of the mixtures analog phase. And the heroin phase is kind of 10 11 with fentanyl. And then the baseline kind of what I see when I land in Cuyahoga County when 11 12 stayed about the same. 12 I got here in 2011. 13 But whether that baseline -- it 13 Q. So -- I'm sorry. Tell me that 14 certainly wasn't tide in with fentanyl. 14 again. 15 Whether it was tied in with heroin and been, 15 It was the first one -- how did you 16 that I can't say with certainty. 16 characterize it? 17 Q. And prior to 2016, there were costs 17 A. Opioid pain relievers. 18 associated to your department for investigating 18 Q. Okay. Opioid pain relievers, then and doing autopsies for cocaine-related deaths; 19 19 heroin, then fentanyl and fentanyl analogs? 20 is that right? 20 A. Right. That's based on our 21 MR. BADALA: Objection to form. 21 understanding now as to how the opioid crisis 22 THE WITNESS: Costs in terms of just 22 has evolved. 23 doing investigations. 23 Q. And is it your view that every 24 BY MR. CHEFFO: 24 overdose that -- where someone used heroin is, 25 Q. Right. 25 in whole or part, related to the conduct of the Page 187 Page 189 1 I mean looking at these numbers, you 1 defendants in this lawsuit? 2 2 had -- other than 2011, you had over a hundred MR. BADALA: Objection to form. 3 deaths a year that were related to -- to 3 THE WITNESS: Not opioid overdoses. cocaine, right? 4 But I think many of them. 4 5 BY MR. CHEFFO: 5 A. Right. 6 Q. What -- what -- what are the 6 Q. And there were significant resources 7 expended on investigating those overdose 7 differentiation points? 8 deaths. 8 A. Well, if you go back into Cuyahoga 9 9 County death records, people overdosed on MR. BADALA: Objection to form. heroin in the 1970s. There was a heroin crisis 10 THE WITNESS: We would routinely 10 have, you know, a death investigator respond to in the country. I don't know Cuyahoga County 11 11 12 a scene of an overdose death, be it cocaine or 12 specifically. 13 And that population could still 13 any of the other drugs. 14 exist in 2012, 2013, '14, '15, when we're 14 We would, unless there had been an 15 interval of survival, conduct an autopsy, 15 seeing this elevation in deaths. But what we're able to do is say, "There's an elevation which, you know, does factor into cost. And 16 16 17 then the toxicology piece of that would also 17 here, and that's related to the conduct of the defendants." 18 be, you know, expenses that would be kind of 18 marginally added on top of them. 19 But whether, you know, that baseline 19 goes away, I don't think that that would be a 20 BY MR. CHEFFO: 20 21 21 Q. You mentioned something before our very honest thing to say. break. You said, "the heroin phase of the drug 22 Q. What is the baseline? What 22 23 crisis." 23 percentage? 24 Do you remember that? 24 A. I couldn't say with certainty. Well, in order to know if there is 25 25 A. Yes.

	Page 190		Page 102
1	an increased, don't you have to know the	1	BY MR. CHEFFO:
2	baseline?	2	Q. Is there you would agree with me
3	A. No. I think, you know, you can look	3	that there's a baseline of people in Cuyahoga
4	at this data and see there's substantial	4	County and the county who have addictive
5	increase in mortality. And as we look at this	5	personalities and abuse drugs or substances,
6	and go back and look at its relationship to	6	whether they be alcohol, cocaine, cough syrup,
7	opioid practices and prescribing pardon	7	and various other things, including fentanyl,
8	me opioid prescribing, these folk are	8	heroin and carfentanil, right?
9	overrepresented from the general population in	9	MR. BADALA: Objection to form.
10	having access to opioid pain relievers.	10	THE WITNESS: I mean drug addiction
11	And then, you know, when we finally	11	didn't start with the actions of the
12	get 2012 data, we see some part of that	12	defendants.
13	picture, but it's incomplete because of the	13	BY MR. CHEFFO:
14	deidentified data.	14	Q. Right.
15	I think, as we get better data in	15	So if somebody took illicit fentanyl
16	2013 and 2014 to analyze, then I think that's	16	from a drug cartel and never took an opioid
17	when we start to really have an appreciation of	17	a prescription opioid, in fact, never saw a
18	the opioid crisis as an evolutionary thing from	18	doctor for any legitimate pain issue, do the
19	opioid pain relievers to heroin and then	19	defendants in this case have any responsibility
20	ultimately to fentanyl.	20	for that?
21	Q. Let's let's we can talk some	21	MR. BADALA: Objection to form.
22	individual just, you know, examples.	22	THE WITNESS: Yes, they do.
23	If somebody was, let's say,	23	BY MR. CHEFFO:
24	unfortunately, 21 years old, never had used an	24	Q. How?
25	opioid, and in 2012 or '13 overdosed on heroin,	25	A. The drug cartels don't operate in a
	Page 191		Page 193
1	Page 191 is that, in whole or part, related to the	1	Page 193 vacuum. They're responding to an opportunity
1 2	Page 191 is that, in whole or part, related to the conduct of the defendants in this lawsuit?	1 2	vacuum. They're responding to an opportunity
	is that, in whole or part, related to the		-
2	is that, in whole or part, related to the conduct of the defendants in this lawsuit?	2	vacuum. They're responding to an opportunity with an increase in demand for opioids in
2 3	is that, in whole or part, related to the conduct of the defendants in this lawsuit? MR. BADALA: Objection to form.	2 3	vacuum. They're responding to an opportunity with an increase in demand for opioids in general.
2 3 4	is that, in whole or part, related to the conduct of the defendants in this lawsuit? MR. BADALA: Objection to form. THE WITNESS: Obviously, if they	2 3 4	vacuum. They're responding to an opportunity with an increase in demand for opioids in general. So in the creation of an
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2 3 4 5 6	is that, in whole or part, related to the conduct of the defendants in this lawsuit? MR. BADALA: Objection to form. THE WITNESS: Obviously, if they haven't taken an opioid pain reliever, I would say, you know, they can't directly tie it.	2 3 4 5 6	vacuum. They're responding to an opportunity with an increase in demand for opioids in general. So in the creation of an opioid-addicted population by overprescribing, overdistribution, we create a group of people
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	D 104		D 10/
1	Page 194 we see in Cuyahoga County, who may be grabbing	1	Page 196 think, you know, they're very astute business
2	that 21-year-old and saying, "This is great.	2	people.
3	You should try this, even though you haven't	3	Q. Capitalism?
4	had the prescription pain medication," that	4	A. Well, I don't know. But I think
5	group, in large measure, was created by the	5	they see an opportunity in an addicted
6	defendants.	6	population to start to infiltrate
7	MR. CHEFFO: Okay.	7	Q. Okay.
8	THE WITNESS: And it is referable	8	A. Heroin and fentanyl, illicitly
9	back to	9	manufactured fentanyl. And I do think that
10	BY MR. CHEFFO:	10	gets referable back to the creation of an
11	Q. So	11	addicted
12	A those actions.	12	
		13	
13	Q. So so that's your connection?	14	* *
14	If somebody was but even within		Q. But how much and I asked you
15	that group, do you know whether that do you	15	though something different.
16	have to know whether the person who is the	16	What percentage?
17	recruiter actually ever took a a lawful	17	Tell me what percentage you put on
18	opioid?	18	the cartels who are actually making hundreds of
19	So if a 23-year-old person who never	19	millions or billions who ship it here
20	took a lawful opioid started using heroin	20	illegally, and a 21-year-old buys a laced
21	because he was introduced to it through some	21	fentanyl?
22	other street drug and then introduced the	22	In the entire picture we
23	21-year-old person, that's that's related to	23	understand you've said everything's ultimately
24	the defendant's conduct?	24	related to the defendants in the lawsuit.
25	A. As I say, you know, there's going to	25	But tell me what percentage are from
	Page 195		Page 197
1	be a baseline of addicts before opioid pain	1	the cartels.
2	relievers. And I would say though that that	2	MR. BADALA: Objection to form.
3	baseline, that population of addicts, increased	3	THE WITNESS: I don't think I could
4	substantially in this county in the wake of	4	do that.
5	opioid pain prescribing practices and	5	
1			BY MR. CHEFFO:
6	distribution practices by the defendants.	6	Q. Is it zero?
7	distribution practices by the defendants. So do I say that guy didn't use, and	6 7	Q. Is it zero?A. No. It's
7 8	distribution practices by the defendants. So do I say that guy didn't use, and that guy didn't use, and I can't refer that	6 7 8	Q. Is it zero?A. No. It'sMR. BADALA: Objection to form.
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7 8 9 10 11	distribution practices by the defendants. So do I say that guy didn't use, and that guy didn't use, and I can't refer that back? That is possibly true for some of these folks. But I think, in large measure, this crisis is referable back to the actions of the	6 7 8 9 10 11	 Q. Is it zero? A. No. It's MR. BADALA: Objection to form. THE WITNESS: definitely not BY MR. CHEFFO: Q. Definitely not zero, right?
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	Page 198		Page 200
1	about now that's culpable?	1	in million or hundred of millions of dollars
2	BY MR. CHEFFO:	2	into this community, and then people are dying,
3	Q. The the manufacturers,	3	right?
4	distributors.	4	We can agree on that.
5	I'm saying basically you've told us	5	MR. BADALA: Objection to form.
6	there's culpability for the actual drug cartels	6	BY MR. CHEFFO:
7	who are, you know, essentially murdering folks,	7	Q. Can we?
8	shipping in drugs that are being used on the	8	A. Everybody reasonable would agree
9	streets of Cuyahoga, right?	9	with that I think.
10	There's some culpability.	10	Q. Right.
11	MR. BADALA: Objection to form.	11	And so what I'm just trying to find
12	THE WITNESS: They bear a	12	out is you've told us in some way and in
13	responsibility	13	some way it's removed, right to conduct and
14	MR. CHEFFO: Right.	14	and people having addiction and introducing
15	THE WITNESS: for what	15	others.
16	BY MR. CHEFFO:	16	And I just want to understand what
17	Q. And and	17	what percentage and how culpable.
18	A they're doing	18	And and if you can't give me
19	Q it's	19	percentages, are the drug cartels more culpable
20	A criminal activity.	20	than a distributor or manufacturer?
21	Q. It's not zero percent, and it's not	21	MR. BADALA: Objection to form.
22	a hundred percent, right?	22	THE WITNESS: I I can't give you
23	A. For the	23	percentages. I feel the crisis, as we looked
24	Q. The responsibility.	24	retrospectively, falls back to the defendants.
25	A drug cartel or for the	25	And the drug cartels are part of the sequence
	Page 199		Page 201
1	=	1	
1 2	Q. Yes.	1 2	of events, if you will. But the crisis is
2	Q. Yes. A defendants?	2	of events, if you will. But the crisis is started with the distributors and
2 3	Q. Yes.A defendants?Q. The let's talk about the drug	2 3	of events, if you will. But the crisis is started with the distributors and BY MR. CHEFFO:
2 3 4	Q. Yes.A defendants?Q. The let's talk about the drug cartels.	2 3 4	of events, if you will. But the crisis is started with the distributors and BY MR. CHEFFO: Q. Would we have a crisis
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2 3 4 5 6	 Q. Yes. A defendants? Q. The let's talk about the drug cartels. A. Again, I'd have to go back to why are the drug cartels bringing drugs into 	2 3 4	of events, if you will. But the crisis is started with the distributors and BY MR. CHEFFO: Q. Would we have a crisis A the manufacturers. Q if we didn't have drug cartels?
2 3 4 5 6 7	 Q. Yes. A defendants? Q. The let's talk about the drug cartels. A. Again, I'd have to go back to why are the drug cartels bringing drugs into Cuyahoga County. And it's because we have a 	2 3 4 5 6 7	of events, if you will. But the crisis is started with the distributors and BY MR. CHEFFO: Q. Would we have a crisis A the manufacturers. Q if we didn't have drug cartels? MR. BADALA: Objection to form.
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1	Page 202	1	Page 204
1	China. It may have passed through drug cartels	1	Q. Is it more than 1 percent?
2	in other parts of the world, including Mexico,	2	MR. BADALA: Objection to form.
3	or it may have been directly accessed over the	3	THE WITNESS: I I'm not going to
4	Internet by individuals in Cuyahoga County with	4	play a game. I can't give you a number.
5	no intermediary.	5	BY MR. CHEFFO:
6	BY MR. CHEFFO:	6	Q. Why not?
7	Q. If if none of that was was	7	A. Because I don't know.
8	sent in from Mexico or China or any other	8	Q. Well, I'm asking for your own
9	country that may have done it, would we have a	9	personal opinion.
10	fentanyl or heroin crisis today?	10	MR. BADALA: Same objections.
11	MR. BADALA: Objection to form.	11	THE WITNESS: Same answer too. I
12	THE WITNESS: If the drugs aren't	12	mean I don't know what percentage. I can't
13	here, the people can't overdose on them.	13	give you that.
14	But	14	BY MR. CHEFFO:
15	BY MR. CHEFFO:	15	Q. What percentage are attributable to
16	Q. Right.	16	the defendants in this lawsuit?
17	Is that	17	A. What's that then?
18	A I think, you know, that's a very	18	Q. What percentage are attributable to
19	abstract question. Because the drugs are here,	19	the defendants in this lawsuit?
20	and we lose hundreds of people every year to	20	MR. BADALA: Objection to form.
21	drug overdoses.	21	THE WITNESS: There's literature
22	Q. Who who's who's bringing the	22	that describes what percentage of the
23	drugs in?	23	heroin-addicted population initiated with
24	MR. BADALA: Objection to form.	24	opioid pain medication. As I say
25	BY MR. CHEFFO:	25	BY MR. CHEFFO:
,	Page 203	1	Page 205
1	Q. The cartels, right?	1	Q. We'll talk about that.
2	Q. The cartels, right? MR. BADALA: Same objection.	2	Q. We'll talk about that.A. Pardon me?
2 3	Q. The cartels, right?MR. BADALA: Same objection.THE WITNESS: As I say, you know,	2 3	Q. We'll talk about that.A. Pardon me?Q. We'll talk about that.
2 3 4	Q. The cartels, right? MR. BADALA: Same objection. THE WITNESS: As I say, you know, cartels are responsible for some. Internet	2 3 4	Q. We'll talk about that.A. Pardon me?Q. We'll talk about that.But I was asking you a different
2 3 4 5	Q. The cartels, right? MR. BADALA: Same objection. THE WITNESS: As I say, you know, cartels are responsible for some. Internet sales over the dark web and things like that	2 3 4 5	Q. We'll talk about that.A. Pardon me?Q. We'll talk about that.But I was asking you a differentI was asking for your opinion.
2 3 4 5 6	Q. The cartels, right? MR. BADALA: Same objection. THE WITNESS: As I say, you know, cartels are responsible for some. Internet sales over the dark web and things like that are responsible for others. I don't know that	2 3 4 5 6	 Q. We'll talk about that. A. Pardon me? Q. We'll talk about that. But I was asking you a different I was asking for your opinion. Do you have an opinion as to what
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	D 20/		P 200
1	Page 206 A. Because they're conducting illegal	1	Page 208 as I understand it.
2	activities. They're a part of the problem.	2	BY MR. CHEFFO:
3	Q. Okay.	3	Q. How many doctors who engage in
4	A. But their actions again, the pill	4	illegal conduct are in this lawsuit?
5	mill, that person should go to jail. I don't	5	A. In this
6	think any of us would go agree with that.	6	MR. BADALA: Objection to form.
7	But why does a pill mill exist?	7	THE WITNESS: Pardon me.
8	Because there's an addicted population who are	8	In this lawsuit I I don't see
9	going to pay cash money to that unscrupulous	9	any there have been prosecutions of those
10	provider to get medication they are addicted	10	individuals, both the cartels and the pill mill
11	to.	11	doctors, in separate criminal proceedings. But
12	Q. Well, but what if they were selling	12	they're
13	amphetamines?	13	MR. CHEFFO: Okay.
14	Does that have anything to do with	14	THE WITNESS: not mention in this
15	the opioid crisis?	15	lawsuit.
16	A. Amphetamines aren't opioids. So I	16	BY MR. CHEFFO:
17	could say they may, you know, have a business	17	
18	model that they're using to sell whatever	18	Q. How many pill mills are in this lawsuit?
19	somebody comes in and asks for. And I wouldn't	19	A. What I would consider the pill mill,
20	say that the amphetamines are referable back to	20	none.
21	the practices of the defendants. But the	21	Q. How many street dealers of drugs are
22	opioids I would say are.	22	in this lawsuit?
23	Q. So let let's just see if we can	23	A. I'd say none.
24	go through them.	24	Q. Do any of those four categories you
25	Cartels have some responsibility,	25	would agree with strike that.
23	curters have some responsionity,	23	
1	Page 207	1	Page 209
1	but you can't tell me you can't quantify it,	1	You would agree with me that, of
2	but you can't tell me you can't quantify it, fair?	2	You would agree with me that, of those four categories, they have some
2 3	but you can't tell me you can't quantify it, fair? MR. BADALA: Objection to form.	2 3	You would agree with me that, of those four categories, they have some culpability, but you can't quantify it, right?
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53 (Pages 206 - 209)

1	Page 210	1	Page 212
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	crisis, the genesis is back with the looking	1	Q illegally for opioids that are
3	retrospectively, is back at the prescribing and distribution practices of the defendants; and	2	then abused or diverted, is there any
4	*	3 4	relationship or any culpability from the defendants?
5	that these cartels and things, when I discuss		
6	them with law enforcement, you know, is a population again that we're kind of seeing	5 6	MR. BADALA: Objection to form. THE WITNESS: I don't think so.
7	addicted to opioids and changing substances.	7	BY MR. CHEFFO:
8	But if I understood your question	8	Q. So you would want to know at least
9	correctly, the interpretation would be that the	9	whether the person who was writing the
10	crisis, as we understand it, starts back with	10	prescriptions had any influence from any of the
11	prescribing and distribution and evolves into	11	defendants, right, before you would make a
12	other more criminal activities.	12	determination that they had some culpability
13	BY MR. CHEFFO:	13	based on defendant's conduct, right?
14	Q. Do do do pharmaceuticals	14	MR. BADALA: Objection to form.
15	companies prescribe anything?	15	THE WITNESS: I would want to know
16	You said that three times.	16	the role of the defendants in terms of
17	Do do are you aware of whether	17	influencing prescribing practices.
18	pharmaceutical companies, as a doctor,	18	BY MR. CHEFFO:
19	prescribe medicines; or is that something	19	Q. Right.
20	doctors do?	20	And why?
21	A. Doctors do. But there	21	A. Because it's relevant to the
22	Q. Right.	22	overprescribing
23	A were influences of the prescribe	23	Q. And
24	of the manufacturers	24	A that we saw.
25	Q. So	25	Q. Okay. And if if there was no
	Page 211		Page 213
1	A on those prescribing practices.	1	role let's assume a doctor never worked at
2	Q if somebody comes out of medical	2	an institution where there was never any
3	school and never saw a pharmaceutical rep today	3	detailing or never any role.
4	and improperly and illegally prescribes	4	That would change your view as to
5	opioids, it's your testimony under oath that	5	whether the company had any or the
6	that somehow is related to the defendant of	6	defendants had any culpability, right?
7	this the defendant's conduct; is that right?	7	MR. BADALA: Objection to form.
8	MR. BADALA: Objection to form.	8	THE WITNESS: There may be other
9	THE WITNESS: No. I wouldn't say	9	ways that they would influence prescribing
10	that.	10	practices.
11	BY MR. CHEFFO:	11	BY MR. CHEFFO:
12	Q. Okay. So so if that person wrote	12	Q. But but you'd at least want to
13	the prescriptions, and they had never had any	13	understand what what the influences and
14	influence from any pharmaceutical company or	14	their prescribing practices were before you
15	any distributor, you would agree with me that	15	made a determination that there was
16	none of their conduct or none of those	16	culpability, right?
17	prescriptions have anything to do with the	17	So in other words, if there was
18	defendants, right?	18	influencing that you thought was improper from
10	MR. BADALA: Objection to form.	19	a defendant that influenced a doctor, you would
19			1:-1:141:-1:41:49
19 20	THE WITNESS: I'm trying to follow	20	assess some liability or culpability, right?
20 21	THE WITNESS: I'm trying to follow you. If someone comes out of medical school	21	A. Yes. I think, in creating that
20 21 22	THE WITNESS: I'm trying to follow you. If someone comes out of medical school BY MR. CHEFFO:	21 22	A. Yes. I think, in creating that culture of undertreatment of pain, the safety
20 21 22 23	THE WITNESS: I'm trying to follow you. If someone comes out of medical school BY MR. CHEFFO: Q. Uh-huh. And and writes	21 22 23	A. Yes. I think, in creating that culture of undertreatment of pain, the safety of opioid pain relievers influencing, you know,
20 21 22	THE WITNESS: I'm trying to follow you. If someone comes out of medical school BY MR. CHEFFO:	21 22	A. Yes. I think, in creating that culture of undertreatment of pain, the safety

	D 011		D 016
1	Page 214 Q. And if there was no influence on a	1	Page 216 more time.
		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	
2	prescriber's prescribing based on any conduct	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	MR. BADALA: So, Mark, are you
3	of any defendant, then you would not assess		willing to stipulate that your client can't
4	culpability, right?	4	read documents when
5	A. You're you're I'm not	5	MR. CHEFFO: No. They can read it,
6	following you exactly. I mean if if you	6	but not not I first would like to ask
7	influence like the way a medical board says you	7	some basic questions about whether he's seen
8	have to treat pain or you're going to be	8	it, heard it, refreshed his recollection. And
9	disciplined, there's not a direct influence	9	then we can figure out if he needs
10	again, but there's a very indirect influence	10	MR. BADALA: Well
11	that you're going to have do, you know, be	11	MR. CHEFFO: to read it.
12	cognizant of, that that practice came from, you	12	MR. BADALA: he's allowed to look
13	know, lobbying efforts and things like that	13	at a document. He didn't spend five minutes.
14	before that person wrote that prescription.	14	We can go back.
15	Q. You'd want to know though whether	15	MR. CHEFFO: I think it was pretty
16	the doctor was influenced, right?	16	close to that.
17	A. I mean	17	MR. BADALA: He can look at it.
18	MR. BADALA: Objection.	18	It's a long it's a long e-mail.
19	BY MR. CHEFFO:	19	MR. CHEFFO: He wrote it.
20	Q. Right?	20	MR. BADALA: Okay? It's a chain.
21	MR. BADALA: Objection to form.	21	MR. CHEFFO: He wrote it.
22	THE WITNESS: Well, I don't see how	22	MR. BADALA: This was this was
23	you could say they weren't influenced if these	23	back
24	are, you know, the laws they're bound to	24	MR. CHEFFO: Okay. Let's not argue.
25	follow.	25	MR. BADALA: in 2013.
	Page 215		Page 217
1	Page 215 BY MR. CHEFFO:	1	MR. CHEFFO: It's fine.
1 2	BY MR. CHEFFO: Q. Do you think doctors use their	2	MR. CHEFFO: It's fine. MR. BADALA: I'm just saying.
	BY MR. CHEFFO: Q. Do you think doctors use their independent judgment when they prescribe		MR. CHEFFO: It's fine. MR. BADALA: I'm just saying. BY MR. CHEFFO:
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1	Page 218	1	Page 220
1	Q. So it would surprise you if	1	files, as I recall, on individuals who had an
2	documents were produced that came from your		OARRS file. We had furnished them the names of
3	personal e-mail?	3	our decedents, and I believe they sent files back to us with those names.
4	A. I haven't really been consciously	4	
5 6	using it. But I I don't know. But I first	5	I don't remember exactly on the
7	would say I it's my practice not to use it for work-related information.	6 7	but that's my best recollection. But we did
8	Q. Okay. Let's go back to this	8	not know anything about prescribing.
9	document. It's Exhibit 2. It relates to		Q. Was it deidentified in the OARRS
10	initials OAR the initial OAR OARRS	9	system or was just what you received
11		10 11	deidentified, if you know?
12	analysis you did back in 2013, right?	12	MR. BADALA: Objection to form.
13	A. Right.Q. And this is based on 2012 OARRS	13	THE WITNESS: As I understood it, it was deidentified what was shared with us.
14	Q. And this is based on 2012 OARRS data, right?	14	Because we did not have access to the OARRS
15	A. This was the deidentified data that	15	
16		16	system.
17	we received from Board of Pharmacy as an	17	But I would have based on what I
18	aggregate electronic file.	18	know of the OARRS system, that information
19	Q. And this e-mail correspondence is		would have been available if someone had access
20	from Ed Fitzgerald and Matt Carroll, who were the count exec county executive and chief of		to it. BY MR. CHEFFO:
21	· ·	21	
22	staff, right? A. Right. At that time they were those	22	Q. Okay. And you state that 64 percent of heroin overdose deaths had an OARRS record?
23	A. Right. At that time they were those positions.	23	A. Yes.
24	Q. And was it routine for you to be	24	Q. And in order to have an OARRS
25	communicating with them about this type of	25	record, that means that there's a record
23	communicating with them about this type of	23	record, that means that there's a record
1	Page 219	1	Page 221
1	information?	1	that of a of a prescription for a control
2	information? MR. BADALA: Objection to form.	2	that of a of a prescription for a control substance, right?
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	Page 222		Page 224
1	Page 222 A. That's right.	1	think was another one.
2	Q. And then you basically said that 48	2	Q. Okay.
3	percent of those had a prescription for	3	A. But I mentioned it further down in
4	benzodiazepines, right?	4	the paragraph.
5	A. That's right.	5	Q. And and at and in in
6	Q. And 85 had a prescription for an	6	determining and looking at those 54 percent of
7	opioid, right?	7	individuals who had a prescription for a lawful
8	A. That's right.	8	opioid of some type, could you tell whether
9	Q. So what this is saying is, of the 64	9	they were using heroin before their opioid
10	percent of heroin overdoses with an OARRS	10	prescription?
11	record, 85 percent of the 64 percent had an	11	A. Not on this data, no.
12	opioid prescription in OARRS.	12	Q. Did you make any judgments or
13	A. That right.	13	determination about how far in the past they
14	Q. So it's not 80 or 85 percent of the	14	had had an opioid prescription prior to their
15	heroin users had a prescription for opioids;	15	heroin overdose?
16	it's 85 of 64.	16	A. When we obtained the deidentified
17	A. Right. So more than half but not	17	data, the OARRS system had a two-year
18	80 not the 85 percent.	18	look-back. And because we didn't get access to
19	Q. Right.	19	the data, we had short look-backs as short as
20	In fact, so I did some math, and you	20	six months and no more than 18 months.
21	can check me on it.	21	So I don't have a full picture of
22	But so, of the 160 heroin overdoses	22	their prescription history. This is the opioid
23	in 2012, 87 of them were had an OARRS record	23	prescription history for the limited look-back
24	for an opioid prescription, right?	24	that we had.
25	A. That's right.	25	Q. So you don't if it was for six
	Page 223		Page 225
1	Q. And that's about 54 percent by my	1	months, if someone had been abusing heroin for
2	calculations?	2	five years and then got a lawful opioid
3	A. Sounds right.	3	prescription, that certainly you couldn't
4	Q. And of the heroin overdoses in 2012,	4	differentiate, could you?
5	54 percent had a record in OARRS of having	5	A. I couldn't tell how long they had
6	received some type of opioid prescription,	6	been using heroin, no.
7	right?	7	Q. Could you tell whether they were
8	A. That's what you just said before.	8	ever addicted or treated for addiction prior to
9	Yes. Okay.	9	using heroin?
10	Q. And what would that include in terms	10	A. Whether they had been in a treatment
11 12	what would be encompassed within opioids?	11 12	facility? That may have come from scene
	So would that include a prescription	13	investigation data. I don't know specifically any one of these 160. But we may have been
13 14	for fentanyl? A. Fentanyl would be one. Oxycodone,	13	aware of some of that. And we tried to go back
15	hydrocodone, oxymorphone, hydromorphone, the		and look at that information, looking through
16	Q. What about morphine?	16	our case files.
17	A. Pardon me?	17	One of the shortcomings of that
18	Q. Morphine?	18	approach I think is that, whoever is there to
19	A. Morphine is an opioid, yes.	19	provide information at the time of death, you
20	Q. What about methadone?	20	know, it's based on what they knew. When we
21	A. Methadone is an opioid, yeah. Sure.	21	convened the formal reviews of poison death
22	Q. Any anything else?	22	reviews in 2013, that was why we wanted the
23	A. I don't want to say that's the	23	medical director of the alcohol and drug
24	exhaustive list of opioids. They're certainly	24	addiction mental health services on the panel.
25	the ones that we saw most commonly. Tramadol I	25	Because she could access that data, and we

	Page 226		Page 228
1	would have better information.	1	Q. Yeah.
2	We could get the public treatments,	2	Just I think I asked you whether
3	and then we could also still have my	3	they were different opioids.
4	investigators gleaning information about	4	A. My anecdotal memory is yes, but I
5	private treatment facilities. So get a clearer	5	can't give you a percentage as I sit here
6	picture.	6	today.
7	Q. Okay. And you couldn't tell, from	7	Q. And did you make any determinations
8	any of these prescriptions that showed up on	8	of doctor shopping based on this data?
9	OARRS, whether they were written by a doctor	9	A. We couldn't.
10	who was engaging in unlawful conduct, could	10	Q. And at this time, was a doctor
11	you?	11	required to check OARRS before he or she wrote
12	A. I could not, no.	12	a prescription?
13	Q. You couldn't tell if it came from a	13	MR. BADALA: Objection to form.
14	pill mill?	14	THE WITNESS: As I understand the
15	A. No, I don't.	15	OARRS system, the requirement for checking
16	Q. You didn't go back and look, did	16	prior to prescribing a narcotic was started in
17	you?	17	April of 2015. So this would have preceded
18	A. I did not go further than to just	18	that.
19	analyze the data that you see here.	19	BY MR. CHEFFO:
20	Q. And you state that the opioid	20	Q. But certainly a doctor could have if
21	prescriptions in OARRS that you identified, 71	21	he or she wanted to; it just wasn't mandatory,
22	percent and I think this is a quote of	22	right?
23	the narcotics were prescribed to the victim	23	MR. BADALA: Objection to form.
24	more than once.	24	THE WITNESS: Wasn't mandatory. I
25	Do you see that?	25	think, if they had access, they could have
	D 227		
	Page 227		Page 229
1	A. Yes.	1	Page 229 checked.
1 2	A. Yes.Q. What does that mean?	2	checked. BY MR. CHEFFO:
	A. Yes.Q. What does that mean?A. Let me just refresh myself on that.		checked. BY MR. CHEFFO: Q. I mean there's no prohibition.
2	A. Yes.Q. What does that mean?A. Let me just refresh myself on that.So when I get the prescription	2	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access,
2 3	 A. Yes. Q. What does that mean? A. Let me just refresh myself on that. So when I get the prescription profile, in all there are 169 prescriptions for 	2 3	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access, he or she could have checked the OARRS database
2 3 4 5 6	 A. Yes. Q. What does that mean? A. Let me just refresh myself on that. So when I get the prescription profile, in all there are 169 prescriptions for these individuals who have an OARRS file with 	2 3 4 5 6	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access, he or she could have checked the OARRS database prior to 2015.
2 3 4 5 6 7	 A. Yes. Q. What does that mean? A. Let me just refresh myself on that. So when I get the prescription profile, in all there are 169 prescriptions for these individuals who have an OARRS file with the opiates. And then, of that, 71 percent of 	2 3 4 5 6 7	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access, he or she could have checked the OARRS database prior to 2015. A. As long as they were prescribing to
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2 3 4 5 6 7 8 9 10 11 12	A. Yes. Q. What does that mean? A. Let me just refresh myself on that. So when I get the prescription profile, in all there are 169 prescriptions for these individuals who have an OARRS file with the opiates. And then, of that, 71 percent of that 87, that 85 percent, had been prescribed an opiate more than one time. OARRS is just going to tell me did they ever get one. But the majority, almost three out of four, were getting multiple	2 3 4 5 6 7 8 9 10 11 12	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access, he or she could have checked the OARRS database prior to 2015. A. As long as they were prescribing to that patient, yes. Q. Right. That's what we're talking about is people who are prescribing, right? A. Right. Yes. I mean they can't do
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. What does that mean? A. Let me just refresh myself on that. So when I get the prescription profile, in all there are 169 prescriptions for these individuals who have an OARRS file with the opiates. And then, of that, 71 percent of that 87, that 85 percent, had been prescribed an opiate more than one time. OARRS is just going to tell me did they ever get one. But the majority, almost three out of four, were getting multiple prescriptions for opioids, more than one. Q. Well, could that have been a refill? A. I don't remember the data to that degree. Q. Were were they different prescriptions for different opioids from different doctors? A. As it says in the next sentence: "I don't have the data on whether this involved different doctors or not." And, you know, I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	checked. BY MR. CHEFFO: Q. I mean there's no prohibition. Provided a doctor otherwise had had access, he or she could have checked the OARRS database prior to 2015. A. As long as they were prescribing to that patient, yes. Q. Right. That's what we're talking about is people who are prescribing, right? A. Right. Yes. I mean they can't do searches around Q. Oh, sure. We're talking A other prescribers or things like that for the doctor shopping piece. Q. And you say: "This confirms that the majority of eventual heroin overdose victims are in the medical system being treated for pain anxiety. Whether the medical system created their addiction or these numbers reflect addicts trying to get whatever they

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Page 230 Page 232 1 when I read before. And I don't want to take 1 A. Right. And then I go on to say 2 anecdotally and this is what we're trying to 2 up more of your time. Oh, here we are. Yes. 3 get better data on. The addicts were created Q. And so you were saying it's 3 impossible to tell from OARRS whether the 4 with the legal pain medicine. 4 5 decedent's abuse started with prescriptions or 5 But you can't use this data, I 6 6 before or after, right? think, to say that -- what they're trying to do 7 as they obtain these prescriptions, whether 7 A. That's right. We could not use this data to try to characterize the overdose -- the 8 they're taking advantage of whatever they can 8 9 get their hands on or whether they're, you 9 heroin overdose population better than to say 10 know, being created by the medical system. 10 they have had prescriptions for these drugs. Whether they're interchangeably going in and 11 Q. Are you aware of any mandate from 11 12 the state medical board requiring the 12 out of the medical system to obtain them or 13 they started with them and then became addicted 13 prescription of opioids? 14 and transferred over to heroin, that we could 14 A. I am more aware of -- and again, I 15 15 -- as I don't treat these -- there were do with --O. Well --16 guidelines that were put out that talked about 16 the treatment of pain and the undertreatment of 17 A. -- this data. 17 18 pain. 18 Q. But also you couldn't -- it could be 19 I didn't specifically, as I 19 something else that wouldn't necessarily be the 20 responsibility of -- of the defendants. 20 remember, discuss opioids. So I -- I don't 21 21 prescribe medications, obviously. And I don't It could be that someone was using 22 know that I can characterize it any better than 22 heroin and then was abusing prescription 23 23 medicines, right? that. 24 MR. BADALA: Objection to form. 24 Q. And -- and of the -- the drug 25 dealers, street dealers, are -- are you -- is 25 BY MR. CHEFFO: Page 231 Page 233 1 Q. That's possible, wasn't it? it your testimony that, because they are 1 2 A. It's possible. And, you know, this 2 opportunistic criminals who are taking advantage of people in need, that they somehow 3 was where we needed to kind of wait for more 3 have no culpability to their conduct? 4 information to come out from those interviews 4 5 5 that were done with actively using heroin MR. BADALA: Objection to form. 6 addicts. We couldn't query these people how 6 THE WITNESS: No. I think I've 7 did you get started on this. 7 answered that before. You know, there are a 8 So this was kind of our first stab 8 cast of unsavory characters here. 9 9 into the data to try to understand the But I would say that that addicted 10 relationship. But I couldn't clarify, like I 10 population is referable back to the defendants. 11 say here, oh, all of these people who have a 11 And then there are chains of people. Some of 12 prescription for opioid pain relievers are 12 them are very unsavory. You know, the street taking them, getting addicted, and 13 drug dealers, the cartels, et cetera, who have 13 14 transitioning to heroin. That doesn't come 14 been prosecuted, and I think appropriately so. 15 from this. 15 BY MR. CHEFFO: Q. And in the second part of your 16 16 Q. Do you think they bear some 17 statement you're suggesting, I -- I believe --17 responsibility for -- if someone were to be a 18 tell me if you disagree -- that some drug 18 street dealer and sell carfentanil to a opioid abusers will abuse whatever's available to 19 19 naive teenager without any medical need, would 20 them? 20 they have capability? 21 A. Where are you at, sir? I'm sorry. 21 MR. BADALA: Objection to form. 22 Q. Where you say: "Whether the medical 22 THE WITNESS: I think they would be, 23 system created their addiction or these numbers 23 you know, appropriately entered into the 24 reflect addicts trying to get whatever they 24 criminal system for their action. 25 could to treat their addiction is unclear." 25 BY MR. CHEFFO:

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1	Q. Do they have culpability for the	1	BY MR. CHEFFO:
2	opioid crisis?	2	Q. It's called a lawsuit.
3	MR. BADALA: Objection to form.	3	How about that?
4	THE WITNESS: They are a part of	4	MR. BADALA: Objection to form.
5	making the crisis worse. But I think that the	5	THE WITNESS: I don't know if you
6	crisis itself is referable back to the	6	could find the cartel to file the lawsuit,
7	defendants, not to these individuals.	7	but
8	Q. They make it worse how?	8	BY MR. CHEFFO:
9	A. By killing all these people with,	9	Q. Well, if you could
10	you know, heroin and fentanyl and carfentanil,		A. I don't know those things.
11	illicit fentanyl. They're a part of that, you	11	Q would you support that?
12	know, chain of events that ultimately is, you	12	MR. BADALA: Objection to form.
13	know, resulting in the deaths of, you know,	13	THE WITNESS: As I say, I would like
14	thousands of people in this community.	14	to see funding for more treatment. Because
15	Q. And and and what what	15	that's something that was overwhelmed in our
16	percentage of culpability do they have?	16	county.
17	MR. BADALA: Objection to form.	17	Where those dollars come from, I
18	THE WITNESS: I I can't answer	18	think the county should just take whatever the
19	with percentages. You know, they're a part of	19	can get.
20	the process that has gone on. But ultimately I	20	BY MR. CHEFFO:
21	think that their existence is referable back to	21	Q. All right. Would you support a
22	the actions of the defendants.	22	lawsuit against the doctors who potentially
23	BY MR. CHEFFO:	23	made millions of dollars or the pill mills who
24	Q. Do you think they should they	24	made lots of money or the cartels or drug
25	should pay for drug treatment?	25	dealers in order to pay for some of the costs
	Page 235		Page 237
1	MR. BADALA: Objection to form.	1	for treatment?
2	THE WITNESS: Honestly, I'd love if	2	Would that be something that you
3	anybody who, you know, stepped up to offer drug	3	think would be appropriate?
4	treatment would pay for it. Defendants, these	4	MR. BADALA: Objection to form.
5	folks.	5	Asked and answered.
6	You know, it's a terrible crisis.	6	THE WITNESS: Again, you know,
7	And we've certainly gone through phases where	7	anybody who would, you know, fund this would be
8	we haven't had enough treatment or treatment's	8	a positive development to me. I think those
9	been very difficult to obtain for people	9	individuals, you know, are appropriately kind
10	because our system was overwhelmed.	10	of put in the criminal system for, you know,
11	That my feeling is, you know, if	11	running a pill mill, an illegal operation like
12	anybody stepped up to pay for treatment, yeah,	12	that and I think making the actions of the
13	I I would welcome it.	13	defendants worse with their actions.
14	BY MR. CHEFFO:	14	MR. BADALA: Is this a good time for
15	Q. Well, putting aside stepped up.	15	a five-minute break?
16	But should should should the	16	MR. CHEFFO: Sure.
17	county seek to make the cartels and the drug	17	THE VIDEOGRAPHER: We are going off
18	dealers and the pill mills and the doctors	18	the record.
19	contribute in any way toward the damages that	19	This is the end of Media Unit 3.
20	they they say that they sustained?	20	The time is 2:13.
21	MR. BADALA: Objection to form.	21	(A short recess was taken.)
1	Asked and answered.	22	THE VIDEOGRAPHER: We are going back
22			
23	THE WITNESS: I don't know, you	23	on the record.
23 24	THE WITNESS: I don't know, you know, how they would do that. But if there was	24	This is the start of Media Unit No.
23	THE WITNESS: I don't know, you		

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	D 230		P. 240
1	Page 238 The time is 2:30.	1	Page 240 MR. BADALA: Objection to form.
2	You may proceed, Counsel.	2	THE WITNESS: I don't know.
3	BY MR. CHEFFO:	3	BY MR. CHEFFO:
4	Q. Doctor, I think I asked you earlier	4	Q. Well, why would the county want it,
5	if you were an expert on ARCOS, and I believe	1	potentially?
6	you told me that you were not; is that correct?	6	MR. BADALA: Objection to form.
7	A. No. We didn't have access to the	7	MR. CHEFFO: Strike that. It was a
8	data, and I don't know the data.	8	bad question.
9	Q. When you when you were deposed	9	BY MR. CHEFFO:
10	last week, I asked you if you had access to the	10	Q. Why would the county want it, and
11	data, and I think you told me you didn't think	11	and for what potential uses could it it use
12	you did, right?	12	the ARCOS data?
13	A. No. I I said we did not. The	13	MR. BADALA: Objection to form.
14	county did not. I did not.	14	THE WITNESS: You know, I don't
15	Q. And it's something you would have	15	really know that I know enough about the ARCOS
16	like to have reviewed if you if you had	16	data to say. As I understand it, it's about
17	access to it, right?	17	distribution of drugs into Cuyahoga County and
18	MR. BADALA: Objection to form.	18	what drugs are coming here. I know potentially
19	THE WITNESS: I mean we just didn't	19	it could be useful for developing public health
20	have access to it. It could have been	20	strategies.
21	potentially informative. But we did not get	21	But as I say, having never seen the
22	access to the ARCOS data.	22	data, I have a very rudimentary knowledge of
23	BY MR. CHEFFO:	23	it. And, you know, it's through the DEA. And
24	Q. And in in the last week, did you	24	we have a DEA office here for with as I
25	learn that, in fact, the ARCOS data was	25	understand, it has a diversion unit.
	Page 239		Page 241
1	provided to the county and your lawyers months	1	So yeah. Not not not having
2	provided to the county and your lawyers months ago?	2	So yeah. Not not not having seen it, I don't know how it could be helpful.
2 3	provided to the county and your lawyers months ago? MR. BADALA: Objection to form.	2 3	So yeah. Not not not having seen it, I don't know how it could be helpful. But if we knew how much drug was in the county,
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1	Page 242	1	Page 244
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. The reason for it. Okay.	1	underprescribed or prescribed inconsistent with
3	What are the typical indications for opioids?	2 3	appropriate standard of care, would you? MR. BADALA: Objection to form.
4	MR. BADALA: Objection to form.	4	THE WITNESS: I don't know standards
5	THE WITNESS: As I say, it's been a	5	of care with that. I think there are instances
6	very long time since I've prescribed anything.	6	of people who are prescribing opioids that are
7	As I remember, they were intended to treat	7	done in an illegal fashion that I would say I
8	pain.	8	would offer a judgment that that wasn't
9	BY MR. CHEFFO:	9	appropriate prescribing.
10	Q. What kind of pain?	10	BY MR. CHEFFO:
11	A. I'm not sure I understand your	11	Q. What would how would you make
12	question.	12	that determination?
13	Q. Are you aware of different types of	13	A. I mean the pill mill scenario is
14	pain, or do you categorize them all under the	14	what came to mind when you asked your question.
15	same rubric?	15	You know, not establishing a patient doctor
16	A. I pain.	16	relationship, prescribing opioids at that
17	Q. Okay. I mean are you aware of	17	point; and, you know, not really having a clear
18	whether there's any more more clarity or	18	reason to be doing that.
19	specificity with respect to the approved uses	19	Q. Do you believe that some patients
20	for opioids, or is it just for pain?	20	can benefit from opioid therapy if it's
21	A. My basic understanding is they're	21	properly prescribed by their doctor and they're
22	used to treat pain. Some of the opiates are	22	monitored?
23	used for diarrhea and things like that as well,	23	A. Yes.
24	like paregoric.	24	Q. And do you believe it's an
25	But I'm not sure what I'm not	25	appropriate therapy, to the extent a doctor
	Page 243		Page 245
1	sure I understand your question as to what	1	determines it's it's a it's the right
2	different types of pain.	2	medicine, for someone who's suffering from
3	Q. Okay. And is it your understanding	3	cancer pain?
4	that they have been opioids have been	4	A. Again, you know, I don't treat
5	approved by the FDA for the treatment of pain?	5	people with cancer pain or postoperative pain
6 7	MR. BADALA: Objection to form. THE WITNESS: I believe that's what	6	or chronic pain. So how appropriate those decisions are I really don't feel qualified to
8	their indication is, yes.	8	give you an answer on.
9	BY MR. CHEFFO:	9	Q. Do you are you are you
10	Q. And it's lawful for doctors to	10	qualified to make an assessment as to how a
11	prescribe opioids for treating pain?	11	doctor should evaluate a patient before
12	A. That's my understanding of that.	12	prescribing an opioid to his or her patient?
13	Q. And it's your understanding that	13	A. I wouldn't say that that's, you
	it's it's common for doctors treating	14	know, something I practice in. And I probably
14	it 8 it 8 common for doctors iteating		
14 15	patients in chronic pain to prescribe opioids,	15	
			would not feel comfortable making that assessment.
15	patients in chronic pain to prescribe opioids,	15	would not feel comfortable making that
15 16	patients in chronic pain to prescribe opioids, amongst other medicines, to try and help their	15 16	would not feel comfortable making that assessment.
15 16 17	patients in chronic pain to prescribe opioids, amongst other medicines, to try and help their patients?	15 16 17	would not feel comfortable making that assessment. Q. So whether somebody was strike
15 16 17 18	patients in chronic pain to prescribe opioids, amongst other medicines, to try and help their patients? A. I don't treat chronic pain. I'm	15 16 17 18	would not feel comfortable making that assessment. Q. So whether somebody was strike that.
15 16 17 18 19	patients in chronic pain to prescribe opioids, amongst other medicines, to try and help their patients? A. I don't treat chronic pain. I'm aware that that's something that opioids have	15 16 17 18 19	would not feel comfortable making that assessment. Q. So whether somebody was strike that. You're not of the view that opioids
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15 16 17 18 19 20 21 22	patients in chronic pain to prescribe opioids, amongst other medicines, to try and help their patients? A. I don't treat chronic pain. I'm aware that that's something that opioids have been used for. I don't profess to really know decision making on that, you know, line of treatment. It's outside of the really scope of	15 16 17 18 19 20 21 22	would not feel comfortable making that assessment. Q. So whether somebody was strike that. You're not of the view that opioids should be removed from the market, are you? MR. BADALA: Objection to form. THE WITNESS: I mean we've used

Page 246 Page 248 1 in medicine. I don't know that I would be able 1 understanding of the -- the study and the --2 to expound at length about what that role is. 2 the takeaway from it. 3 But I wouldn't say that, you know, 3 A. What they were doing in the study 4 they're to be kind of thrown out with the 4 was looking at opioids, both narcotics and 5 dishwater. Throw the baby out with the bath 5 opioid pain relievers, and trying to establish 6 water, if you would. 6 some, you know, data with regard to their 7 BY MR. CHEFFO: 7 interrelation. 8 Q. And -- and -- and you would be --8 And what they did with the heroin 9 you would not support any prohibition on users was asked them about, you know, whether 9 10 doctors prescribing patients who have a 10 they had used or abused opioids for nonmedical 11 legitimate need for opioids -- preventing those purposes, as I recall, within the last year. 11 12 doctors from doing so, would you? 12 Or they did a ten-year look-back as well. 13 MR. BADALA: Objection to form. 13 And adding those two together, they saw that -- I think it was 79.5 percent of the 14 THE WITNESS: I mean a doctor 14 15 prescribing a legitimate medication 15 people who were using heroin had a previous 16 appropriately, I -- I don't see how I would history of using opioid pain relievers, and 16 17 object to that. very few of the people who were using the 17 18 BY MR. CHEFFO: opioid pain relievers or abusing them had 18 19 initiated with heroin, is the takeaways we took Q. Have you advocated, either 19 20 personally or professionally, for any 20 from that. 21 limitations on opioid prescriptions? 21 Q. Okay. So of the heroin users, they 22 A. Not that I -- I -- and I mean our 22 asked them whether they had used an opioid in 23 data has been used in a lot of different ways 23 the last five years? 24 about prescribing. And I don't know the long 24 A. I thought the look-back window they 25 ranging impacts. My direct lobbying for those, 25 used was ten years. Page 247 Page 249 1 I don't remember any instances of that. 1 Q. Ten years? 2 Q. We'll just have some examples. 2 A. And they said, beyond that, they 3 Have you said a -- you -- a doctor 3 didn't want to rely on recall at that point. shouldn't be able to prescribe for more than Q. And this was for -- this was for 4 4 5 seven days an initial prescription? 5 a -- a nonmedical purpose? 6 A. That's a rule that our governor 6 A. The opioid pain relievers, yes. 7 7 instituted here. And through our Opiate Task Q. So what does that mean? 8 Forces and things like that data our is used. 8 A. That it wasn't being used for proper 9 But I'm not directly influencing that decision. 9 use for a therapeutic intervention. I don't 10 So I would have to say I don't know 10 know how they defined the term in their paper 11 to what extent, you know, data that we used has 11 though. 12 influenced any of that. But I have not 12 Q. And so --13 personally done so. 13 A. That's kind of what I took from it. 14 Q. Correct me if I'm wrong. I'm sure 14 O. Right. 15 you will, which is what you should. But I -- I 15 So it was -- there -- they were think you had referenced ANAMSA -nonmedical pain prescriptions, so they were not 16 16 17 A. SAMHSA? 17 prescribed -- they were not being used in 18 Q. -- SAMHSA study last time, maybe 18 accordance with a proper prescription from a 19 earlier today. 19 doctor who prescribed it for pain, right? 20 20 Is that your takeaway? A. Both times, yes. 21 Q. Okay. And -- and you're familiar 21 A. They may have obtained them from a with that study? doctor for pain. But if it was a doctor 22 22 23 shopping scenario or something like that, then A. In general, yeah. 23 24 Q. Okay. And what -- tell me what --24 they were using it in a nonmedical way. you know, give me a summary of your 25 Q. Okay. So let's -- let's just make 25

	Page 250		Dags 252
1	Sure	1	Page 252 medication it's a nontherapeutic use of
2	A. I don't know that they specified,	2	their medication.
3	you know, more beyond how they defined the	3	Your question's a little confusing
4	term, as I I don't remember that they	4	to me though.
5	Q. It was people who were using opioids	5	Q. Right.
6	or had used opioids in the in ten years	6	They these were not people who
7	before in a way that wasn't legitimately	7	were prescribed pain medicines by a doctor,
8	appropriate based on a doctor's prescription or	8	used it as directed and as prescribed, and then
9	recommendation.	9	went on to use heroin, right?
10	Is that your takeaway?	10	That was not this population or this
11	A. They were using them in a	11	study.
12	nonmedical, nontherapeutic way.	12	A. As I understand it, that's not this
13	Q. So it could have	13	population.
14	A. That was my takeaway.	14	Q. And of that 80 percent of the heroin
15	Q been someone who bought a handful	15	users who had used nonmedical prescription pain
16	of pills off the street, right, and used them	16	relievers, about 3.6 percent of those
17	in the last ten years?	17	progressed to heroin use, right?
18	A. That would have been my	18	A. I thought the heroin users
19	understanding of, you know, a group they	19	progressed to at at that low level, to
20	group that they would have included in their	20	the nontherapeutic use of medications, the
21	nonmedical therapeutic use.	21	opioid pain relievers. It was kind of a not
22	Q. Could have been a a a pill	22	a initiating drug for the
23	mill, right?	23	MR. CHEFFO: Well, I want to when
24	A. Right. Sure.	24	I think I'm going to show you the the
25	Q. It could have been something that	25	article again. I hopefully and I think
	Page 251		Page 253
1	they got from a drug cartel and from a	1	you need to read the entire thing, but I
2	street drug, right?	2	want you to to be clear on this.
3	A. I am not aware of the drug cartels	3	Can we just mark this. Because
4	selling the pills that much. But I don't know,	4	that's not my understanding, but I could be
5	you know, that I could speak more to the	5	wrong.
6	source.	6	(Deposition Exhibit 3 was marked for
7	May have been people you know,	7	identification.)
8	other examples I can think of that were	8	MR. BADALA: And just for the
9	discussed in different papers would be like	9	record, you're allowed to read the document if
10	taking medications from a medicine cabinet that	10	you'd like. You don't have to listen to his
11	were intended for somebody else but diverted to	11	instruction.
12	somebody. And that would be an abuse,	12	MR. CHEFFO: I don't think I
13	obviously, that wasn't intended for them.	13	instructed him to do anything.
14	Or, you know, not using your	14	BY MR. CHEFFO:
15	medications appropriately as they were	15	Q. I think in the last and I'm
16	prescribed could also be in that group too.	16	looking at the abstract, Doc. I mean, again,
17	I don't remember how they defined	17	you can look at but I I'd I'd ask you
18	it, to be honest with you.	18	to just look at the abstract first on the front
19	Q. Would the is it fair to say one	19	page. And then, if you need to look at more,
20	of the key takeaways, these weren't people that	20	you can.
		21	A. Not a good way to read medical
21	went to their doctors for pain, were prescribed		
22	appropriately a pain medication, and then 80	22	literature. But I I see what you're saying
22 23	appropriately a pain medication, and then 80 percent of the people went on to heroin, right?	22 23	literature. But I I see what you're saying here.
22	appropriately a pain medication, and then 80	22	literature. But I I see what you're saying

	Page 254		Page 256
1	Q I It's a very specific	1	in in the prior ten years, right?
2	question. But again, you you	2	A. That's my understanding of the
3	A. I I don't want to take up your	3	paper, yes.
4	time. I'll I'll try to do it with the	4	Q. The paper also says that only 3.6
5	understanding I can	5	percent of the people who actually used
6	Q. And again, I'm not going to stop	6	nonmedical opioid or pain relievers went on to
7	you, Doctor. I really want but I I mean	7	use heroin within five years.
8	I I think look at look at the the	8	Is that what that says?
9	second-to-last sentence in the abstract.	9	A. Yes.
10	A. Okay.	10	Q. And that was a significant finding
11	Q. It starts with "Only 3.6 percent."	11	both to you and people in your community,
12	Do you see that?	12	right?
13	A. Right.	13	MR. BADALA: Objection to form.
14	Q. So does that refresh your	14	THE WITNESS: Which finding are you
15	recollection on this argue on this article	15	talking about, sir?
16	that only 3.6 percent of nonmedical use pain	16	BY MR. CHEFFO:
17	relief initiates had initiated heroin use	17	Q. Those two findings, the the 80
18	within the five-year period following their use	18	percent and the 3.6 percent finding.
19	of the nonmedical pain reliever use?	19	A. I certainly, you know, quoted this
20	MR. BADALA: Objection to form. I	20	paper and the research paper I wrote and
21	think you read that incorrectly.	21	thought it was a well done study.
22	THE WITNESS: I'm sorry. I was	22	Q. And it also illustrated that a very
23	looking back to the data part of it, which is	23	small percentage of people who actually used
24	on Page 14.	24	even improperly obtained opioids actually went
25	Right. It says here only 3.6	25	on to use heroin, right?
	Page 255		Page 257
1	percent of nonmedical pain reliever initiates	1	A. This is the 3 percent that they talk
2	percent of nonmedical pain reliever initiates had initiated heroin use within five-year	2	A. This is the 3 percent that they talk about here, 3 and a half percent.
2 3	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain	2 3	A. This is the 3 percent that they talk about here, 3 and a half percent.Q. You it's a small percentage,
2 3 4	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use.	2 3 4	A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree?
2 3 4 5	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO:	2 3 4 5	 A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are
2 3 4 5 6	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right.	2 3 4 5 6	 A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go
2 3 4 5 6 7	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right. So what does that mean?	2 3 4 5 6 7	 A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go on to heroin use, as they mention.
2 3 4 5 6 7 8	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right. So what does that mean? MR. BADALA: Objection to form.	2 3 4 5 6 7 8	A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go on to heroin use, as they mention. Q. Right.
2 3 4 5 6 7 8 9	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right. So what does that mean? MR. BADALA: Objection to form. THE WITNESS: That of the people who	2 3 4 5 6 7 8 9	A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go on to heroin use, as they mention. Q. Right. So
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2 3 4 5 6 7 8 9 10	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right. So what does that mean? MR. BADALA: Objection to form. THE WITNESS: That of the people who were initiates with nonmedical pain reliever use, 3.6 of them had initiated heroin use in	2 3 4 5 6 7 8 9 10	A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go on to heroin use, as they mention. Q. Right. So A. And that's really what forms the basis of our population here.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	percent of nonmedical pain reliever initiates had initiated heroin use within five-year period following their first nonmedical pain pain reliever use. BY MR. CHEFFO: Q. Right. So what does that mean? MR. BADALA: Objection to form. THE WITNESS: That of the people who were initiates with nonmedical pain reliever use, 3.6 of them had initiated heroin use in five years following their first time using the pain relievers in a nonmedical way. Think I confused this with another paper where the number of people who were using prescription pain medication had a very low incidence of having transitioned over from heroin. So sorry I misinterpreted that. BY MR. CHEFFO: Q. No. That's okay. That's why I showed you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. This is the 3 percent that they talk about here, 3 and a half percent. Q. You it's a small percentage, wouldn't you agree? A. But a very large population who are doing that. But a small percentage of them go on to heroin use, as they mention. Q. Right. So A. And that's really what forms the basis of our population here. Q. So 96.5 percent don't, according to that study, right? A. According to that study. Q. And how do we differentiate the 3.6 in that study with the 96.4 percent when we look at the population of Cuyahoga? A. I don't know how you would (Telephone interruption.) (Discussion held off the stenographic record.)
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	Page 258	,	Page 260
1	THE VIDEOGRAPHER: We going back on	1	of the people who used nonmedical pain
2	the record.	2	relievers never, within the last five years,
3	The time is 2:56.	3	went on to to use heroin, right?
4	You may proceed, Counsel.	4	A. That's their finding, yeah. And
5	MR. CHEFFO: Thank you.	5	then, when they look at the heroin initiates,
6	BY MR. CHEFFO:	6	that's the ones who they point to the 80
7	Q. Just before we finish with this	7	percent who did have a nonmedical pain reliever
8	document, I just want to ask you just a a	8	use.
9	question. Then we'll tie it in, Doctor.	9	Q. Right.
10	So is is it your view that some	10	It was 80 percent who used
11	percentage of the people who use heroin in	11	nonmedical within the last ten years, right?
12	Cuyahoga County today began using	12	A. That's my understanding. As I say,
13	nonprescription pain relievers, including	13	I don't want to keep taking up time because I
14	opioids, prior to their use of of heroin?	14	know but the proportion of M N MPR
15	A. Yes. I would say that's true.	15	initiates who progressed to heroin initiation
16	Q. And based on this article, would you	16	expressed as a percentage of a hundred percent
17	characterize that at approximately 3.6 percent?	17	has remained fairly steady.
18	A. I don't know that we've, you know,	18	And that's the numbers. This is
19	looked at that. As I understand, you know, the	19	I'm reading in the middle of page 1471, 71
20	number of people who are if you're asking me	20	percent, 87 percent, 86 percent. And I think
21	who use the prescription opioids in a	21	that's where the number comes 79.5 percent.
22	nonmedical way progressing to heroin abuse	22	Q. And and in that study, does it
23	Q. Uh-huh.	23	articulate what percentage of people who were
24	A this is, you know, what they say,	24	prescribed lawful or appropriate opioid therapy
25	a nationally representative study.	25	went on to use heroin?
	Page 259		Page 261
1	T 1 1/1 / 1 1 / 10 11		
1	I don't know the data specifically	1	A. That's not what I think this study
2	in Cuyahoga County to say what percentage would	1 2	A. That's not what I think this study is addressing.
2	in Cuyahoga County to say what percentage would	2	is addressing.
2 3	in Cuyahoga County to say what percentage would advance to that. I don't know.	2 3	is addressing. Q. Are you aware of a study that looks
2 3 4	in Cuyahoga County to say what percentage would advance to that. I don't know. Q. Well, you have you have you	2 3 4	is addressing. Q. Are you aware of a study that looks at that question.
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2 3 4 5 6	in Cuyahoga County to say what percentage would advance to that. I don't know. Q. Well, you have you have you done anything to either validate or or challenge it?	2 3 4 5 6	is addressing. Q. Are you aware of a study that looks at that question. Well, let me ask you this: Are you aware of any data with respect to Cuyahoga
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1	Page 262	1	Page 264
1	data myself. So I don't know.	1	How to identify, you know, the
2	The other caveat I might say, too,	2	illicit users of drugs, I don't know that we
3	is that, you know, of those people potentially	3 4	could do that with certainty nationally or in
4	who were kind of stealing out of grandma's		Cuyahoga County.
5 6	medicine cabinet, they could go on to develop a prescription or pardon me go on to	5 6	And then, you know, as we talked about, you know, those people who kind of take
7	develop an addiction to those substances based	7	a or you're not asking me that about, you
8	on, you know, somebody who lawfully did have	8	know, people who kind of access legally
9	that prescription. So	9	prescribed, appropriately used medications with
10	Q. Okay.	10	their leftovers.
11	A little hard to capture all the	11	Q. Yeah.
12	data	12	A. That's not a population we're
13	Q. Well	13	discussing.
14	A but	14	So to to answer your question,
15	Q. Okay. I'll be even more precise. I	15	I I don't know that I could figure out how
16	thought you understand what I was talking	16	to get that estimate.
17	about.	17	Q. What would be the variables you
18	I was trying to differentiate what	18	you'd want to know if you had you know,
19	this study talks about, right, which is people	19	if if you had the resources to answer that
20	who are using it for nonmedical purposes,	20	question and you have the inclination to answer
21	right?	21	it?
22	And I was trying to ask you someone	22	A. The most obvious one and I think
23	individually who was prescribed an opioid for a	23	it's the one that, you know, would be the
24	legitimate purpose, and he or she took that	24	easiest to obtain, is who are all these people
25	medicine	25	who've received opioid pain relievers.
	Page 263		Page 265
1	-		
	A. Okav.	1	
	A. Okay. O as prescribed by a doctor, if you	1 2	Q. Can I stop you there.
2	Q as prescribed by a doctor, if you	2	Q. Can I stop you there. So that that would isn't that
2 3	Q as prescribed by a doctor, if you have looked at or are aware of any data in		Q. Can I stop you there.
2 3 4	Q as prescribed by a doctor, if you have looked at or are aware of any data in Cuyahoga County that would tell us what	2 3	Q. Can I stop you there.So that that would isn't that couldn't you search OARRS to at least start
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2 3 4 5	Q as prescribed by a doctor, if you have looked at or are aware of any data in Cuyahoga County that would tell us what percentage of those people went on to become	2 3 4 5	Q. Can I stop you there. So that that would isn't that couldn't you search OARRS to at least start there? A. I can't search OARRS like that. I
2 3 4 5 6	Q as prescribed by a doctor, if you have looked at or are aware of any data in Cuyahoga County that would tell us what percentage of those people went on to become abusers of heroin or fentanyl.	2 3 4 5 6	Q. Can I stop you there. So that that would isn't that couldn't you search OARRS to at least start there? A. I can't search OARRS like that. I don't know that's it searchable
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Page 266 Page 268 1 person who is subsequently arrested and, you 1 individual case, right? 2 2 know, like we say, that that person was MR. BADALA: Objection to form. running, you know, an illegal pill mill 3 THE WITNESS: I don't know think I 3 4 operation. There may be legitimate people in 4 could do that. Whether there's expertise like 5 that data set who, you know, are kind of lumped 5 that, that I don't know. I cannot do it 6 with the bad practitioner. So whether they go 6 myself. 7 on and develop addiction, I don't know. 7 BY MR. CHEFFO: 8 8 And as I say, you know, the end Q. If it was out there, it'd be helpful 9 9 to you in your practice in making public health result, these, you know, folks who are addicted 10 to heroin, there are models and, you know, 10 policy, wouldn't it? MR. BADALA: Objection to form. 11 estimates how many people in a community would 11 THE WITNESS: Which -- it would be 12 be, you know, addicted or abusing things. 12 13 I don't know how they were generated 13 helpful to know --14 14 BY MR. CHEFFO: exactly. So I can't personally kind of go back 15 and tell you what, you know, is the number of 15 O. If you -addicted people here or how to get a reasonable A. -- what percentage of people would 16 16 17 estimate of that and. go from prescription opioids to the addicted 17 18 Not knowing those individuals, I 18 population. 19 19 don't think you could go back and Q. Right. 20 cross-reference OARRS easily on our state 20 A. It would be, you know, a piece of 21 information that I -- I think would be, you level. Or it would become even more 21 22 challenging I think on a national level, just 22 know, helpful to know I think for our purpose in terms of the opioid crisis kind of -- we had 23 given the difference in prescription drug 23 24 monitoring programs and how efficacious they 24 to work backwards from when we identified the 25 2.5 crisis, which was the heroin crisis, and then were. Page 267 Page 269 1 And, you know, our OARRS data 1 try to get to the opioid pain reliever piece of 2 initially included the pharmacies prescribing that. And that's where this study was more 2 3 narcotics. But it did not include people who 3 helpful to me. 4 were dispensing narcotic, samples they had, 4 But, you know, I firmly believed 5 prescribers from their office, until years 5 that all information has some value if it's after OARRS was started. 6 true. And that is, you know, information that So I don't mean to give a 7 7 stays valuable. As I say, I can't do it. It's 8 wishy-washy answer. I don't usually like them. 8 kind of like, if a tree falls on my car, I 9 But there's a lot of moving parts to that. And can't estimate how much damage, but somebody's 10 going to give me money for it. How they do I -- I -- I wouldn't feel that would be a very 10 easy task to do, if it's even possible. But 11 that, I don't know though. 11 12 not by me, I guess. 12 MR. CHEFFO: Okay. Mark this, 13 Q. So to summarize what I think you're 13 please. 14 saying is that there -- I think you said 14 (Deposition Exhibit 4 was marked for 15 there's a lot of moving parts. 15 identification.) Is that fair? 16 16 THE WITNESS: I remember the paper. So I'm just going to read the message. 17 A. Yeah. Direct quote. 17 Q. And it is something that you can't 18 18 BY MR. CHEFFO: 19 kind of draw broad conclusions from 19 Q. I didn't say anything. It's a 20 population-type statistics or data in order to relatively short e-mail. So I'm happy for you 20 21 determine whether people were -- ultimately 21 to read it so I can ask you questions about it. 22 became addicted to heroin or fentanyl or other 22 A. Let me just read his results. Okay. Ready. 23 opioids based on initial prescriptions of 23 24 lawful opioids without knowing a lot of the 24 Q. Thanks, Doctor. 25 different underlying specifics of that 25 So you wrote this to who?

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Page 270 Page 272 1 A. The recipients of the message are 1 our first study I have seen that provides data 2 to back up that belief." 2 Vince Caraffi, who is the injury prevention 3 program coordinator at the Cuyahoga County Q. So you -- you thought this was 3 4 accurate when you sent it, I take it? 4 Board of Health. Jenna Suholdonic is the 5 person at the United States Attorney's Office 5 6 6 who coordinates a lot of the information that Q. And you still believe it's accurate, 7 7 gets distributed, the minutes and things like right? 8 A. Yes, I do. 8 that. And Hugh Shannon is my in-house 9 O. And it says: "What the authors are administrator. And he's been another person 10 saying is that there's a large segment of the 10 I've worked with very closely with our data drug-addicted population who are not" -- and 11 11 12 12 that's all caps, right? Q. And you -- you say the minutes. 13 Is this in connection with a 13 A. Yes. committee? 14 14 Q. -- "getting addicted as a result of 15 the overprescribing of pain medications." 15 A. I was sending this to Vince Caraffi What did you mean by that? in association with the Cuyahoga County Board 16 16 17 of Health task force. He would be my point of 17 A. That they -dissemination there. And I sent it to Jenna 18 MR. BADALA: Objection to form. 18 19 19 THE WITNESS: Oh, pardon me. Suholdonic -- I boot her name periodically. 20 I'll just say Jenna. 20 And I -- I guess I would qualify 21 21 this with the overprescribing pain medication I sent it to her because she does the distribution list for the U.S. Attorney's 22 to them. 22 23 23 What Cicero, et al., are saying in task force. 24 24 this paper is that they've noticed a transition Q. Okay. And you expected them to pass 25 in opioid initiators starting with heroin 25 it on to the other participants in the task Page 271 Page 273 1 force? rising from 2005 to 2015. 1 2 A. Right. Yeah. They were going to be 2 So there's still the majority who 3 points of distribution for me. 3 are being introduced to opioid addiction 4 And this is dated October 9th, 2017, through oxycodone and hydrocodone, but there 4 5 5 right? are drops in those. And what I would say is 6 A. Right. That's correct. 6 that these folk aren't receiving the opioid 7 Could you read just your note for 7 pain medication. But this is an entirely 8 the record. 8 unexpected, given that we're prescribing fewer 9 9 A. Sure. opioid pain medications in Ohio. 10 "Hi all. Would you please forward 10 And what I stressed to the folks 11 this citation to your distribution lists. I 11 when I eventually spoke to them is that, you just became aware of it, and it's a critically 12 12 know, when we look back at these previous, you 13 important piece of information. What the know, heroin epidemics that we've had, they 13 14 authors are saying is that" a large segment of 14 didn't start with opioid pain relievers. 15 the drug-addicted population is -- I'm sorry --15 So what we're seeing potentially is "is that there is a large segment of the 16 a reversion to a model that's more traditional 16 17 drug-addicted population who are not getting 17 in that we have an opioid-addicted population, 18 addicted as a result of overprescribing of pain 18 again who are, you know, related to the 19 medications. This is not to say that the 19 overprescribing of medication, but their 20 prescribing guidelines are without merit, but initiates, their contacts who subsequently 20 21 it is to say that, if they are our sole or 21 initiate are bypassing that root of having 22 major focus in preventing emergence of new 22 opioid pain relievers prescribed to them. 23 addicts, then we are going to be missing a 23 And the public health significance 24 significance emerging trend. I believe we 24 of that is that, especially at this time

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around, the CDC's guidelines being promulgated,

25

suspected that this was the case, but this is

25

	D 274		P 27(
1	Page 274 what I wanted to say is, you know, it's not the	1	to go down and find heroin."
2	whole story anymore if we're going to	2	Q. Really?
3	intervention efforts with, you know, trying to	3	How do you know that?
4	reduce our fentanyl deaths or our heroin	4	A. Not my experience talking to people
5	deaths.	5	in recovery as to how they get started. In
6	Because overprescribing still has	6	fact, I've never heard anybody say that.
7	merit. It's still important because it is a	7	Q. Are you an expert in addiction or
8	big initiator. But we have to start thinking	8	or heroin usage?
9	about interdiction just of illicit substances	9	MR. BADALA: Objection to form.
10	as well. Because that's potentially what some	10	THE WITNESS: No.
11	of these folks are getting started with.	11	BY MR. CHEFFO:
12	BY MR. CHEFFO:	12	Q. Okay. So
13	Q. So Cicero said, from 2005 to 2015,	13	A. I would say that would be a very
14	there was a significant increase in people who	14	unusual story, based on my experience talking
15	started using heroin who never used opioids,	15	to people
16	right?	16	Q. You've not
1	-	17	
17	A. Right. The initiates of heroin.	18	
18	Q. And heroin is not marketed or sold	19	Q. Right. You you've not published this
19 20	by any drug company, is it?	20	or or hold yourself out as an expert
21	A. I don't know the overseas. There	21	on addiction, do you?
22	are some countries like England where heroin is	22	
23	legal.	23	A. I know things about addiction. I
	Q. United States.		wouldn't say that, you know, I would hold
24 25	A. I don't know Q. It's not in the	24 25	myself out as an expert. Q. Right.
23	Q. It's not in the	23	Q. Right.
1	Page 275	1	Page 277
1	A. In the	1	So do the people who actually abuse
2	A. In the Q United States, is it?	2	So do the people who actually abuse heroin, do they have any responsibility?
2 3	A. In theQ United States, is it?A United States, no.	2 3	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they
2 3 4	A. In theQ United States, is it?A United States, no.No. We're not in England.	2 3 4	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior.
2 3 4 5	 A. In the Q United States, is it? A United States, no. No. We're not in England. Q. Okay. 	2 3 4 5	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior. Addiction is, you know, a very hard thing to
2 3 4 5 6	 A. In the Q United States, is it? A United States, no. No. We're not in England. Q. Okay. A. No. 	2 3 4 5 6	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior. Addiction is, you know, a very hard thing to treat, has high relapse rates and, you know,
2 3 4 5 6 7	 A. In the Q United States, is it? A United States, no. No. We're not in England. Q. Okay. A. No. Q. And it's not distributed by anybody, 	2 3 4 5 6 7	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior. Addiction is, you know, a very hard thing to treat, has high relapse rates and, you know, those things.
2 3 4 5 6 7 8	 A. In the Q United States, is it? A United States, no. No. We're not in England. Q. Okay. A. No. Q. And it's not distributed by anybody, right, lawfully? 	2 3 4 5 6 7 8	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior. Addiction is, you know, a very hard thing to treat, has high relapse rates and, you know, those things. But the climate that creates the
2 3 4 5 6 7 8 9	 A. In the Q United States, is it? A United States, no. No. We're not in England. Q. Okay. A. No. Q. And it's not distributed by anybody, 	2 3 4 5 6 7 8 9	So do the people who actually abuse heroin, do they have any responsibility? A. Again, you know, I think that they have responsibilities for their behavior. Addiction is, you know, a very hard thing to treat, has high relapse rates and, you know, those things. But the climate that creates the addict I think is again referable back to the
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Page 278 Page 280 THE WITNESS: In some of those 1 would say that you've created an addicted 1 2 population. They're, you know, conducting 2 instances. Obviously we had heroin addicts illegal activities to support an addiction. 3 3 before an opioid pain reliever crisis. And 4 And, you know, I can't talk to percentages 4 some of those folks -- you know, I couldn't go 5 again, like we mentioned before. But, you 5 back in 1970 and say, you know, "That guy has, know, that individual has some referral back to 6 6 you know, an opioid pain reliever problem." 7 the defendants. 7 But in bulk, a lot of our population 8 BY MR. CHEFFO: 8 who are addicted to heroin have, you know, 9 Q. So -- and let's -- let's keep going. 9 records of using opioid pain relievers. 10 So they are addicted. They --10 Q. Okay. But you're -- you're 11 this -- this is a person who never took an changing -- you're changing the -- the story 11 opioid. Okay? Let's give you a hypothetical. 12 here, Doctor. This I'm -- you know, that's --12 13 Never took an opioid, was -- and never saw a 13 A. I --14 doctor for pain but starts to use heroin. 14 Look, this is -- this is -- hold on Q. 15 And you've told us that the 15 a second. 16 defendants are substantially responsible for This is -- this is a lawsuit that 16 17 that, right? 17 the county has brought. So I'm asking you some 18 A. By degrees of separation in Cuyahoga 18 questions, right? 19 19 Seems -- you're -- you're saying County. 20 Q. And then they go and they break into 20 that these seem absurd or hypothetical. And --21 someone's car and steal their radio, and the 21 and, you know, to some extent I would agree 22 defendants are responsible for that, too, 22 with you. 23 23 right? But the question is, to the extent 24 MR. BADALA: Objection to form. 24 that -- and that's why I very carefully said in 25 THE WITNESS: By degrees of 25 your -- you were changing it -- if someone Page 279 Page 281 1 separation again. never saw a doctor and was prescribed opioids, 1 2 2 they never took an opioid medicine, they never BY MR. CHEFFO: 3 Q. And then they take the radio, and 3 saw an ad or any information about opioids, but they get into their own car, and they're through some channel, whether it's initially 4 4 5 5 speeding away from the police, and they hit starting on heroin or they initially started on 6 somebody and injure them. 6 illicit fentanyl or methamphetamine or crack 7 7 The defendants are responsible for cocaine or something, they found their way 8 8 taking heroin, never having had a prescription that too? 9 A. You know, we can track things back, 9 or a doctor who said, "You should take an 10 you know, to ridiculous levels. I think --10 opioid." 11 Q. Are we doing that? 11 Okay? That's -- that's -- that's my A. I kind of feel like we are. 12 12 population. 13 Q. I think so too. 13 A. Okay. 14 14 O. Okay. A. But I think, you know, if you're 15 telling me is, you know, an addicted population 15 MR. BADALA: Objection to form. in this county referable back to the BY MR. CHEFFO: 16 16 17 defendants, I would say my answer to that is 17 Q. Now, my question is do you believe 18 yes. 18 that the defendants are substantially 19 O. For heroin? 19 responsible for that person's overdose or 20 A. For heroin. 20 addiction? 21 Q. Even if they never were -- had an 21 MR. BADALA: Objection to form. addiction disorder with any product made by any THE WITNESS: I think they could be; 22 22 23 of the defendants? 23 yes. 24 MR. BADALA: Objection to form. 24 BY MR. CHEFFO: Asked and answered. 25 Q. Are they? 25

	D 202		D 204
1	A. They could be.	1	Page 284 Q. So all of those people started or
2	MR. BADALA: Objection to form.	2	many of them started with some other pathway,
3	THE WITNESS: I can't tell you,	3	right?
4	again, there was ever heroin abuse before	4	MR. BADALA: Objection to form.
5	opioid pain relievers. But the initiation, I	5	THE WITNESS: Okay.
6	don't know to what extent that follows the	6	BY MR. CHEFFO:
7	chain of people back to someone who did get	7	Q. Alcohol, right?
8	addicted because of opioid pain relievers.	8	Marijuana perhaps. Then maybe
9	The glut of heroin in our area is	9	cocaine. Then maybe methamphetamines.
10	largely created by the addicted population who		MR. BADALA: Objection.
11	are referable back to the defendants.	11	BY MR. CHEFFO:
12	And to me, that isn't a big stretch,	12	Q. Some some percentage of the
13	like trying to go from a car accident to	13	population wound up getting there through other
14	something. That has a pretty clear link going	14	addictive behaviors; isn't that fair?
15	back, to my opinion.	15	MR. BADALA: Objection to form.
16	BY MR. CHEFFO:	16	THE WITNESS: I I don't know that
17	Q. But you'd want to know at least what	17	I could say that.
18	the link was, right?	18	BY MR. CHEFFO:
19	MR. BADALA: Objection to form.	19	Q. Well, if you don't know that you can
20	THE WITNESS: The link being how do	20	say that, how can you then trace anybody to a
21	we go back to that?	21	prescription opioid?
22	BY MR. CHEFFO:	22	MR. BADALA: Objection to form.
23	Q. Yeah.	23	THE WITNESS: Because people get
24	How how do you	24	addicted to prescription opioids when they're
25	A. I don't know that you could do that	25	prescribed to them. And if that supply gets
	D 202		
	Page 283		Page 285
1	on every individual case. But I'd say, you	1	taken off, then, you know, they may start to
2	on every individual case. But I'd say, you know, in general, we have, you know, more	2	taken off, then, you know, they may start to transition into things either because they're
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	Page 286		Page 288
1	The time is 3:36.	1	be as accurate if we were just wanting to talk
2	(A short recess was taken.)	2	about accidental deaths if we had inadvertently
3	THE VIDEOGRAPHER: We are going back	3	caught the suicides in there.
4	on the record.	4	Q. How many approximately how many
5	This is the start of Media Unit No.	5	suicides per year are in Cuyahoga related to
6	5.	6	ingestion of drugs?
7	The time is 3:35.	7	MR. BADALA: Objection to form.
8	You may proceed, Counsel.	8	THE WITNESS: How many suicides
9	MR. CHEFFO: Thank you.	9	BY MR. CHEFFO:
10	BY MR. CHEFFO:	10	Q. How many people kill themselves or
11	Q. Sir, would you look at Exhibit 1,	11	commit suicide by ingesting lawful or illegal
12	please, and turn to that chart on Page 4.	12	drugs?
13	A. This one, right?	13	A. I don't know that. We had 215
14	Q. Yes. Thank you.	14	individuals last year who took their life. And
15	A. Okay. Yes.	15	that was a rise over other years, which would
16	Q. I I'm not sure if I misheard, but	16	be about 180 or so. I know firearms account
17	I just want the ask you a question or two about	17	for over half of that. And hanging would be
18	the case numbers on the bottom.	18	another percentage.
19	Do you see that?	19	So the drug overdoses, while not
20	They're for each year there's a	20	zero, I I don't know the exact number. But
21	number of cases listed?	21	those are sort of the bigger ones. And drug
22	A. Oh, like 2006, 250?	22	overdose I think is third in that list. But
23	Q. Yes, sir.	23	it's substantially behind firearms.
24	A. Yes. Yeah. Okay.	24	Q. And has the has Cuyahoga brought
25	Q. Do those numbers include suicides?	25	a lawsuit against the manufacturers of
1	Page 287	1	Page 289
1	A. I don't think so, but I honestly	1	firearms?
2	don't know that for certain.		
1 2	O The second study 41, and a second second 40	2	MR. BADALA: Objection to form.
3	Q. They shouldn't though, right?	3	THE WITNESS: Not that I'm aware of.
4	A. I don't think they do.	3 4	THE WITNESS: Not that I'm aware of. BY MR. CHEFFO:
5	A. I don't think they do.Q. Okay. And why would you want to	3 4 5	THE WITNESS: Not that I'm aware of. BY MR. CHEFFO: Q. Have you are you aware of any
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	Page 290		Page 292
1	A. Upgrade, I think.	1	the hypothetical person that it posed, which is
2	Q did you learn that opioids had	2	the person who never received opioids at all,
3	the risk of addiction?	3	and determined and never received
4	A. Back in the 1970s or	4	prescription opioids at all, and determined to
5	Q. Back in the 1970s and also when you	5	go out and use heroin or fentanyl and
6	went to medical school.	6	overdosed. Okay?
7	A. Of, yes. Sure.	7	With respect to that person, could
8	Q. And that was something that was	8	you say, without knowing more, whether it's
9	common knowledge amongst you you and your	9	it's more likely than not that that person
10	your colleagues and your professors, right?	10	became addicted or overdosed based on the
11	MR. BADALA: Objection to form.	11	conduct of the defendants, or would you need to
12	THE WITNESS: Yes.	12	know more?
13	BY MR. CHEFFO:	13	A. I would want to know more.
14	Q. Do you remember, as a youth and	14	Q. And what would you want to know more
15	teenager and young adult, friends and family	15	in order to either validate your view one way
16	members, parents perhaps, warning you, saying,	16	or the other?
17	"Be careful. Never get involved with heroin	17	A. You know, where they got their drug
18	because it can be addictive"?	18	from; who they might have associated with; who
19	MR. BADALA: Objection to form.	19	might have encouraged that use.
20	THE WITNESS: I think there was a	20	You know, to refer things back to
21	lot of messaging I remember as a kid about just	21	the defendants, then, you know, how are, you
22	like don't use drugs. Heroin would certainly	22	know, those individuals potentially related to
23	have been one of those drugs. But there were	23	opioid pain relievers. You know, and, yeah,
24	other things. And maybe I just heard more the	24	the the availability of heroin, I would say,
25	marijuana and those things.	25	you know, it probably time frame when you
	Page 291		Page 293
1	But heroin I think would have been	1	have that hypothetical person. You know, we've
2	But heroin I think would have been in that mix of things, too, that we were	2	have that hypothetical person. You know, we've had a a big glut of heroin in our community
2 3	But heroin I think would have been in that mix of things, too, that we were advised to stay away from.	2 3	have that hypothetical person. You know, we've had a a big glut of heroin in our community and more recently fentanyl.
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Page 296 Page 294 1 whether they received Naloxone, the antidote. 1 A. -- national meeting in -- in -- in 2 2 And unfortunately that was kind of similar too. Baltimore. We submitted an abstract. My 3 graduate student submitted an abstract. I And we also looked at the percentage 3 4 don't remember the exact date. of them who had a file with OARRS. And that 4 5 was about 70 percent. And of that, 90 percent 5 Q. Was it produced in this case? 6 6 of them were people who had a prescription for A. I don't know. 7 Q. Well, did you give it to any of the 7 opioid pain relievers. 8 O. Well --8 lawyers? 9 9 A. So I think they're similar A. A lot of the document production was done with my operations officer. So I don't 10 10 populations, the 2012. That's the point of our research is the population of 2016 fentanyl know if that was provided or not. 11 11 12 12 overdoses is a similar population to the heroin Q. And -- and the abstract -- the 13 overdose population that we saw at the 13 abstract -- so I want to -- you compared -- I 14 beginning of -- when we recognized first, you 14 want to come back to this in one second. I 15 think I had asked you a different question, but 15 know, that things were changing here. And then I kind of have the feeling 16 I'm happy to -- to ask you some of these. 16 I was actually initially asking you 17 that we want to be able to go back and look at 17 about whether people -- the population of 18 these populations independently before we make 18 19 19 people who abuse heroin are similar to assumptions about, oh, it -- it has to go back 20 to this, it has to go back to that. I tried to 20 fentanyl. 21 be -- think of -- more of a scientist than just 21 In other words, do people go out on 22 the street, let's say, and if they have a -- an 22 taking anecdotes on that. 23 abuse problem, and they -- will they 23 Q. You -- you would be wrong to just interchangeably use heroin or fentanyl; or do 24 take anecdotes and draw conclusions, right? 24 25 25 You know, decision making I think is you know? Page 295 Page 297 1 based on the best information you have. But if 1 A. I think, you know, the answer to you have access to better information, I would 2 that may be they don't know what they're 2 3 always try to use that. 3 getting in some instances. One of the programs Q. Anecdotes is not a way to make 4 4 that the county's tried to introduce, because 5 5 public policy, is it? of the lethality of fentanyl -- fentanyl is a 6 MR. BADALA: Objection to form. 6 much more potent drug than heroin -- has been 7 THE WITNESS: Again, I -- I would 7 to give to the users fentanyl test strips to 8 have to say, you know, when you're making 8 see if that drug is present in what they 9 9 decisions, there are times when the only purchased. 10 information you have is largely anecdotal. And 10 And I don't have data from Cuyahoga 11 if it's compelling, I could see instances where 11 County. But there's data that says, from a 12 somebody might make a decision -- a policy 12 colleague of mine in Rhode Island, that it will 13 decision based on that and maybe revisit it to 13 the change their behavior if they see fentanyl 14 kind of see does the data support that. 14 is present. 15 But sometimes you have to make the 15 I don't know if that was -- I got best decision with the information you have in 16 off on a tangent, but --16 17 front of vou. 17 Q. No, no. 18 BY MR. CHEFFO: 18 So -- so your -- is it your 19 Q. Tell me about -- so have you 19 testimony that you believe that often people submitted this report for -- or study or -who use illicit fentanyl don't -- are not aware 20 20 21 what -- what is it? 21 that it's -- it's fentanyl, and they are 22 22 seeking heroin, and they wind up with fentanyl, It is a -- it is a publication, or is it a -and it's more potent, so it's more dangerous? 23 23 24 A. It's a --24 A. I can't speak to kind of some of the Q. -- a board? 25 motivations. I do think that, you know, based 25

	Page 298		Page 300
1	on that information and applying it to our	1	to answer
2	community, we are at least, you know,	2	Q. What factors were you
3	considering that possibility; that if an	3	A from my standpoint.
4	individual knows something they thought was	4	Q. What factors were you looking at to
5	heroin has fentanyl in it, it may change their	5	determine if they were similar?
6	behavior. That's the basis for the program.	6	Were you looking at who their
7	Q. And you told you just mentioned	7	doctors were?
8	that you did a a a look at 2016 data for	8	A. Meaning who
9	fentanyl users?	9	Q. Who was prescribing it.
10	A. Fentanyl people who died of	10	A. Who was prescribing opioids or
11	fentanyl overdoses, yes.	11	Q. Yeah.
12	Q. And you looked at the OARRS	12	A. We looked at the OARRS data, but we
13	database?	13	didn't specifically look at the physicians who
14	A. We went back and looked at the OARRS	14	were prescribing
15	database for those individuals, yes.	15	Q. Did you look at why
16	Q. And what were you looking for?	16	A other than to I'm sorry. If I
17	A. Whether they had an OARRS file and	17	could finish to see if there were people who
18	whether they had a what the file was for and	18	had five or more prescribers, the doctor
19	whether there was evidence of doctor shopping.	19	shopping folks.
20	Q. That was the that was the	20	Q. So were you looking for reasons as
21	hypothesis?	21	to why well, strike that.
22	A. The hypothesis for	22	Did were you tell us the
23	Q. Well, what's what was the point	23	factors that you looked at to determine whether
24	of this paper? What were you trying to convey	24	there were similarities.
25	to the reader?	25	A. We looked at age
			8
1	Page 299	1	Page 301
1	A. The purpose of the research was to	1	Page 301 Q. Okay.
2	A. The purpose of the research was to take the fentanyl population overdose	2	Q. Okay. A race, gender, whether they had a
2 3	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they	2 3	Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they
2 3 4	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they were similar or different than the heroin	2 3 4	Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they were using intravenous drugs, whether Naloxone
2 3 4 5	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they were similar or different than the heroin overdose population that we had seen in 2012.	2 3 4 5	Page 301 Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they were using intravenous drugs, whether Naloxone had been administered by EMS.
2 3 4 5 6	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they were similar or different than the heroin overdose population that we had seen in 2012. We actually used 2013 data for the OARRS	2 3 4 5 6	Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they were using intravenous drugs, whether Naloxone had been administered by EMS. We were looking at whether they had
2 3 4 5 6 7	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they were similar or different than the heroin overdose population that we had seen in 2012. We actually used 2013 data for the OARRS comparison because it was not the deidentified	2 3 4 5 6 7	Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they were using intravenous drugs, whether Naloxone had been administered by EMS. We were looking at whether they had had contact with the jail system. We were
2 3 4 5 6 7 8	A. The purpose of the research was to take the fentanyl population overdose population pardon me and see whether they were similar or different than the heroin overdose population that we had seen in 2012. We actually used 2013 data for the OARRS comparison because it was not the deidentified data.	2 3 4 5 6 7 8	Q. Okay. A race, gender, whether they had a history of substance abuse before, whether they were using intravenous drugs, whether Naloxone had been administered by EMS. We were looking at whether they had had contact with the jail system. We were looking at whether they had contact with the
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Page 302 Page 304 1 somebody else in the minority of cases, or they 1 force. 2 2 had an instance where there was somebody -- and Q. Did -- did you just say --3 A. I think that was --3 we would hear these heartbreaking stories of Q. -- it was public? 4 somebody who would come home intoxicated; they 5 looked high; they went to bed; they were 5 A. I might have misspoken on that. We 6 storing like crazy; kept everybody up; and then 6 had access to it --7 7 they stopped snoring; and, you know, they'd Q. Okay. find them dead in the morning. 8 A. -- is what I would say. I would 8 9 think probably those things would be protected 9 And when they stopped snoring, they by HIPAA and other things. You can't tell 10 were dying. That's when they needed Naloxone. 10 So that was data that was used to support our 11 people who was in drug treatment. 11 12 We were working, as part of our task 12 Naloxone program. So we looked at that so -force, with those folks. So we had that 13 as a factor as well. 13 14 14 access. But I -- I think you're right that Q. What -- what did you look at -- I 15 that certainly wouldn't be something that --15 want to -- I want to be very specific on these. So if you could just tell me the specific 16 So --16 Q. 17 answer. I'll go through each one. 17 A. -- we'd consider public data. 18 To determine someone's substance 18 So you --They're public institutions, I would 19 19 abuse history, what did you do to make that 20 determination in both years? 20 say. 21 21 Q. So you looked at data to determine A. We would rely on -- if there were whether somebody was in drug treatment for 22 arrest records, that was one piece. We would 22 23 years, 2013 and 2016, as part of your paper? 23 also -- interviews at the scene by my 24 investigator, whether somebody had a history of 24 A. It's part of our public health 25 intervention. And then this is the data we're 25 substance abuse. Page 303 Page 305 1 Q. Anything else? going to present. 1 2 A. I think those were the big 2 Q. Okay. And to determine if they ever information streams that we used for that 3 3 were an intervenous drug user, was that largely 4 determination. by visual examination? 4 5 5 Q. And -- and in many determinate --A. Again, the two things. Obviously if were you able to determine what -- what -- the 6 6 we had somebody who had a puncture site on 7 rate of uncovering whether they had substance them, we would, you know, rule out whether that 8 abuse treatment? 8 was a therapeutic thing from EMS, if we could 9 Treatment we went back and looked at 9 do that; and if it wasn't, then we would infer 10 the public data through the ADAMHS -- the 10 from that that they were intravenously using 11 Alcohol and Drug Addiction Mental Health 11 drugs. 12 Services -- data. That was furnished us to 12 The scene also could give us 13 because it's public. There were private indications both whether syringes were present 13 14 treatment facilities here. 14 as well as the information of other individuals 15 And as these charts would be 15 at the scene. 16 abstracted, we would look at whether they had 16 Q. Okay. 17 the public data and also whether there was 17 A. So we try to collect as much data 18 anything in our history taking at the scene 18 from different streams as we can. 19 that suggested, oh, they're not going to show 19 Q. What about Naloxone use; how did you 20 up on the public data because they went to a 20 determine that? 21 private treatment facility. 21 A. That would be record -- recorded by 22 Q. And ADAMHS data is substance abuse 22 EMS in their response to these tests. We get 23 data that's public? an EMS run sheet for all the deaths where EMS 23

77 (Pages 302 - 305)

responds. They come to our office. And the

drug overdoses would be a subset of that.

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24

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A. I don't know. I mean we had access

to it as part of our collaboration and task

		1	
	Page 306		Page 308
1	Q. And you matched those individually	1	population in 2013 and something in 2000
2	to various people?	2	group of people in 2016, and you thought that
3	You got the records, and they said	3	there was some parallels, right?
4	John Smith, Naloxone treatment, and you match	4	That's your conclusion?
5	it to an overdose death in your office?	5	A. Yes. The populations are
6	A. Maybe I should back up.	6	Q. Okay.
7	When we're investigating a death in	7	A very similar.
8	our office, if there was an EMS response, we	8	Q. And then to try to look at them, you
9	would request and obtain the EMS run sheet as	9	you you identified a number of factors.
10	part of our practice, drug overdoses or other	10	And that's what I'm just trying to understand
11	things. So in abstracting a chart to kind of	11	as to how you got to those factors, right?
12	pull the data out of it, we would be able to	12	We've talked about substance abuse.
13	see, you know, an EMS run sheet, did they	13	Talked about intravenous.
14	respond.	14	Now, Naloxone, is it only from the
15	Q. I'm so you've heard the term	15	EMS record of you know, these are these
16	"garage in, garage out," right?	16	are overdoses when someone died; or did you
17	A. Yeah.	17	get additional records of prior Naloxone
18	Q. Right.	18	administrations?
19	So you've told me you've done this	19	A. Oh, you mean from Project DAWN or
20	publication, right? And you've told me there's	20	something, if I'm
21	varied data points that you're using to try to	21	Q. No.
22	draw some comparisons. And we haven't seen	22	A understanding you right?
23	this, to my knowledge, paper. It hasn't been	23	Q. If if John Smith had previously
24	produced.	24	been had overdosed and been revived with
25	So I'm just trying to under	25	Naloxone.
	Page 307		Page 309
1	Page 307 A. It's not a paper, sir. I'm sorry.	1	Page 309 A. We would potentially capture that in
1 2	A. It's not a paper, sir. I'm sorry. It's an abstract we submitted for presentation.	1 2	A. We would potentially capture that in the contact with the medical systems. But for
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Page 310 Page 312 1 justice center over there gets a letter from me 1 A. Right. The EMS run sheets. 2 about risk reduction strategies around opioids. 2 Q. And who -- who's -- who's the person 3 Q. Doctor, I'm -- I'm just trying to 3 whose -- what -- what organization did you send understand about -- you're -- you're giving a 4 4 this abstract to? 5 lot of speeches now. And I know you're looking 5 A. The abstract representing was sent 6 to the camera, and you're giving a speech. 6 to the American Academy of Forensic Sciences. 7 But I'm asking you very specific 7 Q. And who's the person there that you 8 8 questions about a report that we haven't seen, deal with? 9 and I've limited time. Okay? So I'd like you 9 A. There is a submission abstract. I 10 to -- to focus, if you can, on my questions. 10 don't know who receives that. Then those are reviewed by different sections. So my section 11 MR. BADALA: He's answering your 11 is pathology, biology. And it would have been 12 12 questions. 13 BY MR. CHEFFO: 13 reviewed, and it - it was accepted. 14 14 Q. When did you send this abstract in? Q. Now, I asked you how you got the 15 information from the drug court. You told me 15 A. In the fall, I think. I don't somebody who sits on a task force had access. 16 16 remember the date specifically. 17 Did that person get a name of all of 17 Q. September, October? 18 -- did you give them a list of the names of all 18 A. I don't remember the date. I'd have 19 the people in 2013 and 2016 and ask them to go 19 to check. 20 and run them in a database? 20 Q. Did you do any revisions to the 21 21 Is that how it worked out? abstract? 22 A. Yes. We would furnish our list of 22 A. No. We -- we sent it. And then, 23 fentanyl overdoses and run those through a 23 you know, it's their decision after that. They 24 don't send it back to you and say, "Revised database to see if they matched with people in 24 25 drug court or in the jail. 25 this," or "Add this." Page 311 Page 313 1 Q. Who did that? 1 Q. Was it peer reviewed? 2 2 A. It's not a publication. So there's Who did the --3 Q. Yeah. Who was the person who -- who 3 a selection committee for these various 4 used the criminal justice database to do that 4 organizations. And I don't know the details of 5 and then provided that information to you? 5 what goes into the selection of the papers. A. It was somebody in the sheriff's 6 I haven't served in my own capacity 6 7 7 office. I don't have a name to give you. as a member of AAFS or name in that capacity. 8 Q. Well, who's the person who sat on 8 So I don't know what went into the selection process. 9 task force with you that authorized that? 9 10 A. I think his name was Miguel 10 Q. And how was it presented? 11 Caraballo. But that would have been in 2013. 11 Is it presented through a 12 Otherwise, we've been collecting this data not 12 PowerPoint? Is it a speech? Is it a board 13 face to face anymore. 2013 we met, we went like they do at medical conferences? Or do you 13 14 14 hand people out your abstract? over the 194 overdoses face-to-face. And that 15 information was provided by somebody from the 15 A. It's an abstract now. It was sheriff's office. 16 accepted to be a poster presentation, but the 16 17 There are minutes of those that I 17 poster's not been created. 18 believe were furnished. And that person would 18 Q. I say "board." 19 be in the minutes. 19 That -- so you understood -- you 20 Q. Okay. And did you -- did you 20 call it a poster? 21 disclose to them that you were going to be 21 A. Oh, poster. Yeah. 22 using this data for an abstract that you were 22 Q. Right. going to be sending outside of Cuyahoga? 23 23 You've seen those where they 24 A. I don't think so. 24 basically put the big -- one big poster up, 25 right, and you stand by it and you talk about 25 And did -- you also access EMS data?

	Page 314		Page 316
1	it?	1	tell that from the database.
2	Is that	2	Q. Well, you looked at a lot of
3	A. Right.	3	different databases.
4	Q what we're talking about?	4	You did there's in all of your
5	A. That's what we will ultimately be	5	analysis, you didn't you didn't check any
6	doing in February. The poster itself though	6	databases or talk to anyone about why a
7	hasn't been created.	7	particular doctor wrote a prescription, did
8	Q. Who are the other authors on this	8	you?
9	poster abstract?	9	A. No, we did not.
10	A. My student who collected data and	10	Q. You didn't look at any medical
11	analyzed it was Vaishali and that's	11	records, check any databases, talk to anyone as
12	V-A-I-S-H-A-L-I Deo, D-E-O, MD. And she is	12	to why that prescription was written for a
13	a student in the Case Western Reserve School of	13	particular patient, did you?
14	Public Health.	14	A. There were medical records that we
15	Q. And in connection with any of these	15	were accessing about treatment. I don't know
16	people, did you did you talk to any of the	16	that they specifically talked about why opiates
17	doctors who prescribed the opioids?	17	would have been prescribed. We weren't looking
18	A. The fentanyl overdose	18	at that
19	Q. Yes.	19	Q. Did you
20	So I understood	20	A data point.
21	A. That we	21	Q. That wasn't a factor, was it?
22	Q one of the things you did was to	22	A. Huh?
23	look at the the overdoses and, amongst other	23	Q. That wasn't a data point, was it?
24	factors, you checked the OARRS database to	24	A. It wasn't a data point we were
25	determine if there was a prescription at some	25	looking at, no.
	Page 315		Page 317
1	point, right?	1	Q. You didn't and couldn't determine
2	A. That's right, yes.	2	whether the opioids were written after somebody
3	Q. And how far back did you go?	3	first started using fentanyl, could you?
4	A. As far back as the database would		
		4	A. No. We could just look back and see
5	let us, which I think changed to three years	5	what percentage of the people who died of a
6	let us, which I think changed to three years for this study.	5 6	what percentage of the people who died of a fentanyl overdose had received a prescription
6 7	let us, which I think changed to three years for this study. Q. So you looked to see if there was a	5 6 7	what percentage of the people who died of a fentanyl overdose had received a prescription for an opioid or a controlled substance through
6 7 8	let us, which I think changed to three years for this study. Q. So you looked to see if there was a a an entry for in OARRS for any type	5 6 7 8	what percentage of the people who died of a fentanyl overdose had received a prescription for an opioid or a controlled substance through OARRS.
6 7 8 9	let us, which I think changed to three years for this study. Q. So you looked to see if there was a a an entry for in OARRS for any type of controlled substance, or were you only	5 6 7 8 9	what percentage of the people who died of a fentanyl overdose had received a prescription for an opioid or a controlled substance through OARRS. Q. Did you compare how many people were
6 7 8 9 10	let us, which I think changed to three years for this study. Q. So you looked to see if there was a a an entry for in OARRS for any type of controlled substance, or were you only looking for opioids?	5 6 7 8 9 10	what percentage of the people who died of a fentanyl overdose had received a prescription for an opioid or a controlled substance through OARRS. Q. Did you compare how many people were incarcerated prior to receiving the
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	let us, which I think changed to three years for this study. Q. So you looked to see if there was a a an entry for in OARRS for any type of controlled substance, or were you only looking for opioids? A. Both. So the 70 percent number that I quoted was for any OARRS file, so any controlled substance. And the 90 percent of that, so 63 percent of the total, was for prescription opioids. Q. And you didn't talk to any doctor as to why they were prescribed, right? A. No. We didn't do that follow-up. Q. You didn't look as as to the basis for the prescription, did you? A. No. It wouldn't have been in the database.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	what percentage of the people who died of a fentanyl overdose had received a prescription for an opioid or a controlled substance through OARRS. Q. Did you compare how many people were incarcerated prior to receiving the prescription in OARRS? A. I don't think we went into that level. We identified the number of people who had been incarcerated, again as an intervention point potentially for public health education. I don't we didn't look at their timing of OARRS relative to their incarceration Q. Did you look at A though Q. Sorry. A. We didn't look at the timing of their incarceration relative to their

Page 318 Page 320 1 just don't know. 1 Q. Did you say that? 2 That wasn't a data point, was it? 2 A. It's certainly possible. 3 Q. Did you say that? 3 A. I don't know. Q. And you didn't determine whether 4 Did -- I mean -- let me ask you 4 5 5 this: When you looked for drug abuse they had actually had an overdose and received 6 Naloxone before they ever received the OARRS 6 treatment, did it go back more than two or 7 prescription, did you? 7 three years? 8 8 A. And if I understand your question, A. I don't recall. We got the data 9 whether they'd had an overdose, been revived 9 from ADAMHS and -- I don't remember. It's 10 with Naloxone, and then subsequently received 10 certainly possible. Could have gone back another prescription? further than that. 11 11 12 Q. Right. 12 Q. Right. 13 A. No. We didn't look at that 13 And did you say, "By the way, it could be misleading if you think that what 14 14 specifically. 15 I can say, you know, we didn't look 15 we're saying to you is someone actually took an at that in 2012 either. So we wanted to keep opioid and then had treatment, when, in fact, 16 16 17 the population that we studied in 2012, the 17 they had treatment five years before they ever 18 data we were getting in 2016, as close to that 18 got an opioid"? 19 as we could so we could do comparisons. 19 Wouldn't that have been something 20 20 that you'd want to convey to your -- your--Q. Right. 21 21 your consuming public? If -- if you were looking at whether 22 someone had received addiction treatment, that 22 MR. BADALA: Objection to form. 23 23 was one of the things -- treated for substance THE WITNESS: As I say, all 24 24 information's valuable. We didn't look at abuse, right? 25 A. Right. Rehabilitation treatment, 25 that Page 319 Page 321 1 detox, those things. 1 BY MR. CHEFFO: 2 Q. You didn't look at whether they 2 Q. Well, are you going to do that now 3 received detox or substance abuse treatment 3 that you've kind of thought of that issue so 4 prior to receiving a prescription for an opioid 4 that no one is misled? 5 from a doctor, right? 5 MR. BADALA: Objection to form. 6 A. We didn't specifically look at that 6 THE WITNESS: As it stands now, we 7 time line, no. wanted to compare 2016 data to 2012 data. And 8 Q. And you didn't do that because you 8 I don't have the staff right now to do that. 9 know it would have shown that a lot of these 9 As I say, it could be a very interesting piece 10 people actually had long histories of drug 10 of information to know. But I -- I can't tell abuse prior to ever getting a prescription from 11 11 you I'm leaving here and going back to do it a doctor that was listed in OARRS, right? 12 12 because I don't have the resources, given 13 A. No. I wouldn't characterize. We 13 everything else that's going on in our county. 14 were just trying to collect information. I'm 14 BY MR. CHEFFO: 15 not trying to find out, you know, what -- as I 15 O. You had the resources to do the 16 understood your question, I'm not trying to 16 poster, right? 17 hide anything there. 17 A. I mentored a graduate student to do 18 Q. But you had information that would 18 this poster and the research for it. 19 have clearly showed that people had had 19 Q. Do you stand behind it? 20 substance abuse treatment prior to ever 20 Is it accurate? 21 receiving an opioid that was listed in the last 21 MR. BADALA: Objection to form. 22 two or three years in the OARRS database, 22 THE WITNESS: Is what accurate? 23 23 right? BY MR. CHEFFO: 24 A. We didn't parse it to that level. 24 Q. Did you lend your name and 25 So it --25 reputation to this board, or is it just

	Page 322		Page 324
1	something that a student did on a frolic and	1	A. And I think we were.
2	detour?	2	Q. Okay. And you're going to produce
3	A. No. It's a legitimate scientific	3	that that document and the drafts to your
4	study.	4	lawyer, right?
5	Q. And you want it to be as accurate as	5	You you can find that?
6	possible, right?	6	MR. BADALA: Objection to form.
7	A. Sure.	7	We'll take it under consideration if
8	Q. You don't want it to mislead anyone,	8	it hasn't been produced already.
9	do you?	9	MR. CHEFFO: Okay.
10	A. No.	10	MR. BADALA: You're assuming it
11	Q. And if you thought it would be	11	hasn't been produced.
12	misleading, you would want to correct it,	12	MR. CHEFFO: I am assuming that.
13	right?	13	And it's it's if it is, then I apologize.
14	A. I have to do what I can do. I	14	MR. BADALA: According
15	wouldn't want to mislead anybody. And I think,	15	MR. CHEFFO: I haven't
1		16	MR. BADALA: Same
16 17	you know, what you talk about you know, if I look at addiction as a chronic relapsing	17	MR. CHEFFO: found it.
18	illness, maybe people were in treatment, did	18	MR. BADALA: Yeah.
19	well, then relapsed later and started to abuse	19	BY MR. CHEFFO:
20	opioid pain relievers. I don't know that.	20	
21	I'm capturing a data set and sharing	21	Q. All right. Let me ask you a few other questions just on resources.
22	it. I don't, you know, proffer this as the	22	Is there a time that you've asked
23	final word on everything. It's valuable	23	for additional resource from your boss in order
24	information to move a discussion forward.	24	to do the function that you think your office
25	And I don't think it's my intent to	25	needs to do and they have been denied?
-			<u> </u>
1	Page 323 mislead anybody. I'm certainly not trying to	1	Page 325 MR. BADALA: Objection to form.
2	do that. I'm trying to do my best to	2	THE WITNESS: I think our
3	characterize two populations of people who	3	administration's been supportive. And they may
4	overdosed and say that they are similar so the	4	not have said yes right away. But I think,
5	prevention strategies that were formulated back	5	when I've asked for additional personnel or
6	in 2013 when we had this data, 2014, 2015, are	6	staff pardon me staff or instrumentation,
7	still potentially applicable to the population	7	that they were very responsive. I'm pleased
8	we're dealing with now who overdosed on	8	with, you know, how responsive they have been.
9	fentanyl in 2016.	9	BY MR. CHEFFO:
10	Q. But in order to find out if they're	10	Q. And do you think that we're past the
11	similar, you have to ask the right questions,	11	peak of the fentanyl issues in Cuyahoga?
12	right?	12	A. I think it's too early to say.
13	MR. BADALA: Objection to form.	13	Q. Where is the trend going?
14	BY MR. CHEFFO:	14	A. The trend's going downward. But in
15	Q. You can't be result oriented, can	15	2015 or 2014, as you 2015 I'm sorry
16	you?	16	the heroin trend went down, and then we saw a
17	A. I I didn't hear the beginning	17	fentanyl trend emerge.
18	of	18	And I don't know that the fentanyl
19	Q. In order to	19	trend, I would be willing on one year of data,
20	A your question.	20	to say we're out of the woods. I don't think
21	Q to to find out if they are, in	21	any of us said that at the press conference
22	fact, popular similar, you can't be result	22	either. We a lot of work to do. But it was
23	oriented, right?	23	encouraging to see it headed in that direction.
1		0.4	O A
24 25	You have to be fair and neutral and scientific about the comparison, right?	24 25	Q. Are you going to devote more resources to cocaine?

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	Page 326		Page 328
1	MR. BADALA: Objection to form.	1	The time 14:27.
2	THE WITNESS: What resources are	2	(A short recess was taken.)
3	you	3	THE VIDEOGRAPHER: We are going back
4	BY MR. CHEFFO:	4	on the record.
5	Q. Are are is your department	5	This is the start of Media Unit No.
6	going to devote more resources in understanding	6	6.
7	the cocaine epidemic that you have and how to	7	The time is 4:40.
8	fix it	8	You may proceed, Counsel.
9	MR. BADALA: Objection to form.	9	EXAMINATION BY COUNSEL FOR DEFENDANT
10	BY MR. CHEFFO:	10	AMERISOURCEBERGEN
11	Q or address it?	11	BY MR. BORANIAN:
12	A. We continue to monitor the drug	12	Q. Good afternoon, Dr. Gilson.
13	supply through our drug chemistry laboratory.	13	A. Good afternoon, sir.
14	We continue to do our autopsy work on any	14	Q. You've talked today and before quite
15	suspected drug overdose.	15	a bit about the medical examiner's office's
16	I don't see analogs of cocaine	16	office's use of the OARRS database. And I just
17	emerging. So I think the resources that we're	17	have a couple of follow-up questions on that.
18	doing for drug overdose investigations cover	18	The first thing is that are you able
19	the cocaine surge. We've gotten adequately	19	to designate delegates to access OARRS data on
20	staffed again.	20	your behalf?
21	I don't know what other resources I	21	A. Yes, I am.
22	would allocate to that, as I think we're	22	Q. And who are those delegates
23	sufficiently addressing it now. It's just, you	23	currently?
24	know, it wasn't a good thing to see it rise	24	A. Hugh Shannon, Dr. Deo, and I think
25	again.	25	our new epidemiologist, Manreet Bhullar,
	Page 327		Page 329
1	Q. All right. I just have another	1	B-H-U-L-L-A-R.
2	question or two, and then I'm going to turn it	2	Q. And who is Hugh Shannon?
3	over to my colleagues.	3	A. Hugh Shannon is my chief of
4	Is there a is there a person	4	operations administrator. He his name
5	who's in charge of databases and kind of	5	his title's changed. He's my chief of
6	information management in your office?	6	operations though. He oversees the
7	A. We have a centralized IT department	7	nonlaboratory and nonmedical staff part of the
8	for the county. And we have in-house people	8	operation.
9	who at one time were my employees; but now,	9	Q. How long has Mr. Shannon been with
10	when the county charter reform took place, they	10	you?
		1	•
11	became centralized. The whole department	11	A. I arrived in Cuyahoga County in June
11 12	became centralized. The whole department became centralized.	11 12	A. I arrived in Cuyahoga County in June of 2011. He's been here the whole time with
	became centralized.		of 2011. He's been here the whole time with
12	<u>*</u>	12	· · ·
12 13	became centralized. They would maintain our medical examiner database. They would also maintain a	12 13	of 2011. He's been here the whole time with me. It's my understanding he only got there a
12 13 14	became centralized. They would maintain our medical	12 13 14	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his
12 13 14 15	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory.	12 13 14 15	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date.
12 13 14 15 16	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one	12 13 14 15 16	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo?
12 13 14 15 16 17	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually.	12 13 14 15 16 17	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to
12 13 14 15 16 17 18	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually. MR. CHEFFO: Okay. Thanks, Doctor.	12 13 14 15 16 17 18	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to me. She is currently enrolled in the Case
12 13 14 15 16 17 18 19	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually. MR. CHEFFO: Okay. Thanks, Doctor. I'm going to pass you over to my	12 13 14 15 16 17 18 19	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to me. She is currently enrolled in the Case Western Reserve University master of public
12 13 14 15 16 17 18 19 20	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually. MR. CHEFFO: Okay. Thanks, Doctor. I'm going to pass you over to my colleague.	12 13 14 15 16 17 18 19 20	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to me. She is currently enrolled in the Case Western Reserve University master of public health program. She is an MD from previous
12 13 14 15 16 17 18 19 20 21	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually. MR. CHEFFO: Okay. Thanks, Doctor. I'm going to pass you over to my colleague. Let's go off the record for a	12 13 14 15 16 17 18 19 20 21	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to me. She is currently enrolled in the Case Western Reserve University master of public health program. She is an MD from previous schooling, but she was going back for that.
12 13 14 15 16 17 18 19 20 21 22	became centralized. They would maintain our medical examiner database. They would also maintain a separate database for our crime laboratory. It's we can't get the two of those in one package, actually. MR. CHEFFO: Okay. Thanks, Doctor. I'm going to pass you over to my colleague. Let's go off the record for a minute.	12 13 14 15 16 17 18 19 20 21 22	of 2011. He's been here the whole time with me. It's my understanding he only got there a few weeks before me. I don't remember his exact start date. Q. Who is Dr. Deo? A. Dr. Deo is a research assistant to me. She is currently enrolled in the Case Western Reserve University master of public health program. She is an MD from previous schooling, but she was going back for that. Q. Is she an employee of Cuyahoga

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1	Page 330	1	Page 332
1	Bhullar?	1	for doctor shopping. I don't think we
2	A. Ms. Bhullar.	2	necessarily keep individualized data for that.
3	Q. Ms. Bhullar.	3	I don't I don't know at that level.
4	A. She's also	4	Q. Who maintains that database?
5	Q. And who is she?	5	A. The agency.
6	A another epidemiologist or	6 7	Q. The agency. Okay. Who would know where that database
7	pardon me a master of public health student from Case Western Reserve University. And she	8	is and how it's maintained?
8 9	is an employee. We hired her on a grant. So	9	A. Probably a better question for my
10	she is a Cuyahoga County employee for at least	10	operations officer.
11	a month or so.	11	Q. Mr. Shannon?
12	Q. Have you had any other delegates?	12	A. Mr. Shannon, yes.
13	A. Erin Worrell, who was one of my	13	Q. Now, it's your understanding that it
14	investigators I don't know if she still has	14	became mandatory in 2015 for prescribing
15	the access or not is only the other one I	15	physicians to check OARRS when prescribing
16	can think of right now.	16	controlled substances; is that right?
17	Q. And Ms. Worrell is an investigator	17	A. Yes. I think there was a
18	in your office, correct?	18	requirement for a check if the prescription was
19	A. She's one of my senior	19	going to be longer than seven days. Or there
20	investigators, yes.	20	was a requirement for the check every 90 days
21	Q. And also a county employee, correct?	21	thereafter. That's my understanding of it.
22	A. Also a county employee, yes.	22	But if somebody was prescribing
23	Q. All right. Now, again, we've	23	opioids in the hospital, for example, after
24	discussed quite a lot the office's use of the	24	surgery, they didn't have to check the OARRS
25	OARRS reports.	25	database, is my understanding of it.
	Page 331		Page 333
1	And without regard to whether	1	Q. Did it become mandatory in 2016 for
2	they're printed or downloaded or or whatever	2	pharmacies to check OARRS when dispensing
3	where where is the information that your	3	controlled substances?
4	office gleans from the OARRS reports recorded?	4	A. That's my understanding of that,
5	And clearly you've done analysis	5	yes.
6	with those data, true?	6	Q. And regardless of those
7	A. Yes.	7	requirements, it's mandatory for pharmacies to
8	Q. So even if the reports are not	8	report the dispensing of controlled substances,
9	physically printed aged put in some file in	9	right?
10	some organized fashion, where is the data	10	MR. BADALA: Objection to form.
11	gathered once gleaned from the OARRS database?	11	THE WITNESS: As I understand how
12	A. We have a data sheet, a kind of a	12	the database was created, that was data that
13	model form, that we use for our opioid	13	was collected from the pharmacies initially to
14	investigations in general. The OARRS data is	14	create the database. And then at a point
15	recorded as part of that data sheet, data	15	subsequent to that, and I want to say a couple
16	analysis.	16	years after that, it became mandatory for
17	And I believe we have an electronic	17	doctors' offices who were giving out controlled
18	database for that now where the OARRS data	18	substances from the office also to enter that
19	would be entered for you know, whether we	19	as a data point as well.
20	have a doctor shopping situation, whether we	20	BY MR. BORANIAN:
21	have well, I guess whether we have a file at	21	Q. When did it become well, strike
22	all, whether there is, you know, opioids	22	that.
23	prescribed.	23	When was it required for pharmacies
0.4			
24 25	And I think we're still tracking the benzodiazepines. And then we also have a track	24 25	to report dispensing information to OARRS, if you know.

Page 334 Page 336 1 MR. BADALA: Objection to form. 1 you have determined to be the cause of death? 2 THE WITNESS: As I understand it, 2 A. The combined effects of them. 3 when it started. But I -- I don't want to be 3 That's usually the wording that we'll use. But 4 certain about that. I thought they had to 4 they are all contributing to the cause of 5 prescribe -- share that information to create 5 death. the database. 6 6 Q. Now, once you have determined that 7 7 an opioid death has occurred, how is that --BY MR. BORANIAN: 8 Q. Let me ask you about death 8 well, you enter it on the death certificate, 9 certificates a little bit. 9 correct? 10 The death certificate includes both 10 A. Right. Okay. 11 the cause of death and a manner of death; is Q. And how is that recorded or coded 11 12 otherwise in the department? that right? 12 That's correct. Yes. 13 A. 13 A. I'm not sure I understand your 14 So is it then part of a medical 14 question. 15 examiner's job to certify both the cause of 15 Q. Well, is -- you've been -- you've death and the manner of death? run reports and statistics over the years on 16 16 17 A. Yes. That would be our statutory overdose deaths and other kinds of deaths. 17 18 responsibility to do that. 18 There must be some database from Q. So if a -- a forensic pathologist or 19 19 which you draw that information, right? 20 one of your colleagues or if you yourself --20 A. Oh, sure. Yes. They're all forensic pathologists --21 21 Q. So then how is -- you know, once 22 Very well? 22 you've determined that there's been an O. 23 A. -- in my office who would be doing 23 opioid-related death, you know, how is that 24 the certifications. 24 coded and then entered into a database? 25 Okay. If -- if any one of those 25 We have a -- an office data system Page 335 Page 337 professionals determines to a reasonable degree 1 for the medical examiner side called VertiQ. 1 2 of medical certainty that a particular drug or And the cause of death will be entered into 2 3 3 substance was a cause of death, do you then that. And that's, you know, potentially 4 searchable database back through 2006. And name that particular drug or substance in the 4 5 cause of death line on the death certificate? that would be the repository of our cause of 5 6 death information. 6 A. Yes, we do. In fact, that's a good Q. I see. 7 7 question. Because one of the things I think that was a problem statewide was people were 8 So -- and when did that coding 8 9 9 process begin? not doing that. 10 A. I think the office has always 10 I had one doctor in my office who maintained cause of death information. That had come up from Texas who also didn't 11 11 system was implemented I want to say in 12 routinely do that. And we gave him the nudge 12 that we needed to do that. Because I think 13 about -- it was before my time -- 2006, 2007. 13 14 Prior to that our office has 14 that's important information to track. 15 And I also sit on the board of 15 traditionally really put out a statistical report for 75 years. There were other ways of directors for the State Coroner's Association 16 16 tabulating cause of death information, but I 17 and made that recommendation through them, too, 17 don't know what they were. 18 to the elected coroners throughout our state. 18 19 Q. Can a toxicology report distinguish 19 Q. There are cases where there are between different kinds of opioids? 20 multiple drugs presents in the tux [sic] -- in 20 21 A. Oh, pardon me. 21 the tox reports, correct? 22 A. Yes. 22 Yes, it can. Q. And is that captured in the --23 Q. So the drugs then -- in such a case, 23 24 the drugs that you list in the cause of death 24 A. Well, the --

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-- database that you're --

25

25

space on the certificate, are those drugs that

Page 338 Page 340 1 A. -- testing can. I mean the report's 1 findings, microscopy that we might conduct, any 2 reporting the testing. But yes, it can. 2 of the toxicology information. Potentially 3 Q. Very well. 3 other ancillary studies might be relevant to 4 4 And is that information then that as well. 5 captured and -- and input into the database 5 Q. So is it fair to call it a matter of 6 you're describing? 6 judgment based on the information you had 7 7 available to you? A. Yes, it is. 8 8 A. I -- I think it's ultimately, you We also have a separate toxicology 9 database called Pathways, which was an in-house 9 know -- a medical death cert -- a death 10 development. And that tracks toxicology data, 10 certificate's a medical opinion as to a, you all of it, like whatever's positive. know, cause of death based on the evidence that 11 11 12 12 The VertiQ system that I mentioned we've reviewed, yeah. 13 would track the relevant drugs as they impact 13 Q. And coming to that cause of death 14 cause of death but wouldn't necessarily track 14 involves clinical and medical judgment, right? 15 all of the other drugs that might have been 15 A. Yes. I mean all of the forensic 16 detected, say if there was a car crash or 16 pathologists in the office are medical doctors. 17 something else. But we can access that 17 And they've had training, on top of their 18 information as well. 18 medical school education, specifically in death 19 Q. When there are multiple factors that 19 investigation and writing death certificates. 20 contribute to a death, do you determine a sort 20 We also have a training program in our office 21 21 of principal or leading cause of death? as well. 22 A. Well, on a death certificate there 22 MR. BORANIAN: I'm going to mark 23 are two areas that relate to cause of death. 23 this large set of sheets as Exhibit No. 5. 24 So one is called "cause of death," and that 24 I think the stickers are down there. 25 would be the injury or disease which would be 25 (Deposition Exhibit 5 was marked for Page 339 Page 341 1 the primary disturbance to the person's, you identification.) 1 2 know, physiology that results in their death. 2 BY MR. BORANIAN: 3 And then we're also asked to make 3 Q. So, Dr. Gilson -- I need my glasses contribution -- if there are other significant 4 4 for this one. 5 contributions. And these would be other 5 A. I'm taking mine off actually. conditions -- they're called "other significant 6 6 Q. Okay. We have opposite problems, 7 7 conditions," which in and of themselves don't you and I. 8 cause death, but they make death more likely to 8 So this is the first ten pages of a 9 occur. 9 voluminous spreadsheet which was produced under 10 And the example I give for visiting 10 the Bates number Cuyahoga 000099975. And the 11 residents and student is, if you have heart title of this set of data is 2000 -- I'm 11 12 disease, atherosclerosis, that can cause your 12 sorry -- "CCMEO 2006 to 2017 Overdose Data." 13 death. If you also have diabetes with it, 13 And I have the whole spreadsheet on 14 which a lot of people do, it doesn't cause 14 a flash drive. But I printed the first ten 15 atherosclerosis, but it accelerates the rate 15 pages because I really have just general 16 questions about these data and what the various that it forms. 16 17 Q. And how do you go about determining 17 columns are and so forth. 18 the -- I think you said principal disturbance? 18 First of all, can you tell me what 19 What's the process you go through, 19 these data represent? 20 the method yo go through to -- to distinguish 20 Do you know what this is? 21 that from other potential causes of death? 21 A. It's a -- a spreadsheet -- and I'm 22 looking at, you know, what's on this, which A. The whole death investigation. And 22 23 23 would be case number. And our case numbering then, you know, our clinical judgment, our 24 medical judgment. So that we would, you know, 24 system at this point on the sheets you're 25 take into account scene investigation, autopsy 25 showing me was just sequential. It was a

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Page 342 Page 344 1 running number. That changed sometime before I 1 Q. Do you know when or -- and why this 2 got there, a few years before I got there. So 2 particular set of data was extracted? 3 3 this sequential numbering would have been in Do you know who maintains the VertiQ 4 place in 2006, 2007. 4 5 5 It talks about -- some things I -database? I'm not sure what they are, the coded mode. 6 A. We have an IT department who are 6 7 But I think, if you go over that first solid 7 responsible for the office information block with multiple, cause of death would be 8 8 technology needs. 9 9 furnished there. Data being entered into this is from 10 And then we would have 10 the general office, which would be clerks in my office who would be entering, you know, time of 11 information -- as I'm looking at the top -- of, 11 death, cause of death, et cetera. And that you know, city, state, ZIP code. 12 12 13 13 would be pulled out and put into this. And we make a distinction between --14 this is all going to be pulled off of the death 14 So the VertiQ database itself is an 15 certificate -- residence of the decedent and 15 IT function. And that's managed by them and maintained by them. But the information that 16 incidence, if there's a injury. So we would 16 17 actually distinguish those two. 17 populates this would be more people on my 18 And I'm looking just to see if there 18 staff. 19 19 is a -- I think these data over here in the Q. So the Cause of Death column, which 20 last column where it sort of looks cut off and 20 you previously pointed out to me, is that 21 says "V City" and "Death County," that might --21 where -- is that where this file would capture 22 I -- I -- I -- these are truncated, so I'd have 22 opioid-related deaths? 23 23 to say it might be the data from the incident. A. Yes. 24 24 O. Is that information recorded And then there's demographic 25 information here --25 anywhere else in this file? Page 343 Page 345 1 Q. Okay. 1 A. The clerks do this coding mode, and 2 A. -- as well. So race; ethnicity, I -- I don't do that. So I don't know what 3 which is Hispanic, not Hispanic; gender; age; 3 that is. But I don't see any other place where 4 marital status. I would see what drugs would have been included 5 And we would also look at occupation 5 here. 6 and other things about the time of death and 6 O. Would --7 who the assigned doctor was. 7 A. It would be in that cause of 8 Q. So this was produced to us as a 8 death --9 giant spreadsheet. 9 Q. Would Mr. Shannon --10 But do you know from -- from where 10 A. -- section. the data came? 11 Q. I'm sorry. I thought you were 11 12 Was it run from one of your 12 finished, Doctor. 13 databases? 13 Would Mr. Shannon know more about 14 A. Yes, it was. 14 it? 15 And which database was it run from? 15 A. I don't know for sure. The clerks 16 There was an attempt to enter all of are under him, but I don't know to what extent 16 17 the data into the VertiQ database. And this 17 he would know the coding system any better than looks like a sleet sheet I've seen from the 18 18 I. 19 VertiQ database. But --19 Q. So which column captures the type of 20 O. Okay. 20 drug that is related to a drug overdose? 21 A. -- the database -- as I say, I don't 21 A. That would be in the Cause of Death 22 remember exactly when it started. It might 22 column. Unfortunately, these have been cut have been before 2006, and that data may have 23 23 off, so a lot of them just say "intoxication by 24 been entered into the database from some --24 the." 25 something separate. I don't know for sure. 25 Q. But --

Page 346 Page 348 1 A. Yes. That would be the drugs coming 1 A. There's a lot of information here. 2 after that. 2 I'm just looking for things that I know are on 3 3 Q. Let me ask you about two of the a death certificate that don't show up here. 4 columns further over to the right. There's one And one of the ones I know of is 4 5 which is called "RC App Manner." 5 veteran status. So this at least doesn't have 6 A. Okay. 6 that piece of information. 7 Q. Do you know what that means? 7 But in filling out a death 8 8 A. I know what manner of death means. certificate, part of it is filled out by our I know, when cases get called into the office, 9 office, and part of it is filled out by the 10 they'll be given kind of a triage as to what 10 funeral home. So there's information the manner they might be. And I don't know if this 11 11 funeral home would collect that maybe doesn't 12 is actually extracted from the death 12 get reflected here, like veteran status. 13 certificate database or from at that database. 13 Q. Okay. And how about vice versa; is 14 14 there information here that's not on the death But seeing things here like 15 "unknown" make me think it's from the call-in 15 certificate? A. Again, I -- I -- I don't know if database. Because we don't have a checkbox in 16 16 17 the death certificate for unknown. We have an this manner was populated with death 17 18 undetermined but not an unknown. 18 certificate data. And I'm not sure what 19 19 Q. So if I understand correctly, if the "unknown" means. 20 -- if -- if these -- if this information were 20 The other designations there --21 taken from a death certificate, "unknown" would 21 natural, suicide, et cetera -- those are 22 not appear, correct? 22 legitimate causes of -- or pardon me -- manners 23 23 A. That would be a very unusual term of death. So I don't know if that actually was 24 for death certificate, just because the 24 taken from the death certificate and "unknown" 25 manner -- if we can't make a decision, there is 25 is -- is some default that was used to generate Page 347 Page 349 1 an option. But it's undetermined, not unknown. the spreadsheet. 1 Q. And let's go to the column just to 2 2 Q. If you were to look at a death 3 the left of Cc App Manner. It says "RC NIG," 3 certificate and -- and look at the cause of N-I-G, "Occurred." 4 death, for example, and look at this file and 5 5 What does that mean? see a discrepancy, which would you rely on, the 6 A. Whenever you certify a death in 6 death certificate or this file? 7 7 other that natural causes, there's a need for A. Death certificate. 8 an explanation how the injury occurred. And 8 MR. BORANIAN: You can put that 9 there are various boxes on a death certificate 9 aside now, Doctor. 10 around that. 10 We'll mark this the next. 11 And they would be, you know, saying 11 (Deposition Exhibit 6 was marked for 12 things like when did the injury occur, where 12 identification.) 13 did it occur. And one of them would be how did 13 THE WITNESS: Thank you. BY MR. BORANIAN: 14 the injury occur. And that's what you're 14 15 seeing there. 15 Q. So, Dr. Gilson, I'll tell you off 16 the bat I think there's an error in this 16 Q. So I understand, Doctor, that 17 information is keyed into this file or this 17 document. Okay? It's --18 database from the death certificates. 18 A. Okay. 19 Is all the information from the 19 Q. -- at -- first of all, what is the 20 death certificates keyed into this database? 20 document I've marked as Exhibit 6? 21 A. I don't know. 21 A. You know, these are monthly reports 22 22 Q. In other words, would we have to that we put out for dissemination. They go 23 actually look at additional copies of death 23 primarily through our task force. And they're 24 certificates and other paper to get a more 24 summaries of mortality data and, you know, 25 complete picture? 25 things that we're seeing in the office.

1	Page 350	,	Page 352
1	They're they change some over	1	conference. The last column on the first page
2	time, but there are certain things that show up	2	with the table, that was what we were focusing
3	in all of them and then other thing that are	3	on primarily at the press conference. Some of
4	updated on a monthly basis.	4	these other things are other things that we
5	Q. So the document is is titled	5	traditionally include but I don't think we
6	"Cuyahoga County Medical Examiner's Office		mentioned at the press conference itself.
7	Heroin/Fentanyl/Cocaine Related Deaths in	7	Q. Take a look at Page 2 of Exhibit 6.
8	Cuyahoga County," right?	8	A. I'm sorry. Are we looking at this
9	A. Yes.	9	one?
10	Q. And it says "2018 December Update,"	10	Q. That's right.
11	correct?	11	A. That one. Okay. Yeah. Sure.
12	A. Right. And we would issue it on the	12	Q. So if you look at the top line,
13	11th of January 2018.	13	which is "Total Drug Overdose Deaths," 2017 was
14	Oh, 2018 December update, is that	14	727; and 2018, at least as you understood on
15	that typo?	15	January 11, 2019, was 560, right?
16	Q. That's that's the error, Doctor.	16	A. That's our projection. There's an
17	A. Okay. Yeah. We couldn't be issuing	17	inherent lag in deaths and then being
18	the December update on January of 2018.	18	certified. Have to wait for toxicology
19	Q. So I'll represent to you that, when	19	testing.
20	you go on the web site and we just did it a	20	So there are standards for our
21	few minutes ago the link says "January 11,	21	accreditation. We have to maintain 90 percent
22	2019."	22	of our toxicology testing being completed
23	A. Oh, it does. Okay.	23	within 90 days. So this number may change as
24	Q. Yes.	24	more of that comes in.
25	A. So we did fix it.	25	But based on what we had certified
	Daga 251		Page 353
1	Page 351 O Well the but when you get the	1	Page 353
1 2	Q. Well, the but when you get the	1 2	up until that point and I think there's a
2	Q. Well, the but when you get the document, it still says "2018."	2	up until that point and I think there's a asterisk that goes through cases we had ruled
2 3	Q. Well, the but when you get the document, it still says "2018." Here's the question: Doctor, what	2 3	up until that point and I think there's a asterisk that goes through cases we had ruled through September 2018. We reserve the right
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	D 254		D 25/
1	Page 354 A. That's right.	1	Page 356 method that you have used to make this chart
2	Q. So after 2011, the increases that	2	has not changed, true?
3	we're seeing in total deaths is driven	3	A. No, it has not.
4	principally by heroin, fentanyl and cocaine; is	4	Q. Okay. Take a look at the fifth page
5	that true?	5	of this same chart. It looks like this. This
6	MR. BADALA: Objection to form.	6	page is entitled "Cuyahoga County
7	THE WITNESS: I would even back away	7 8	Heroin/Fentanyl Related Overdose Deaths 2013 to
8	from the cocaine. Because, as I mentioned		2018, Projected Death with DAWN Saves As Overdose Deaths."
9	earlier, when we tease out cocaine as an	9	
10	independent contributor, it isn't rising in	10	Is that what it says?
11	this time frame, 2016, 2017. It's being pulled	11	A. Yes, it does.
12	up by fentanyl, as is heroin.	12	Q. So explain this chart to me, Doctor.
13	Heroin deaths are dropping unless	13	What does this represent?
14	they're associated with fentanyl over that time	14	A. This would be a series of data
15	frame. They continued their downward trend	15	points going back to 2013. The first graph
16	after 2015 unless fentanyl was present.	16	that we're seeing there is the graph for heroin
17	BY MR. BORANIAN:	17	deaths. And the I think the stripped one
18	Q. And if a drug is detected in	18	with the strips rising up to the left is heroin
19	connection with a death, let's say both cocaine	19	plus fentanyl.
20	and fentanyl, that single death is recorded	20	So in 2013 we actually didn't track
21	both in the cocaine numbers and in the fentanyl	21	this. We this was added subsequent to that.
22	numbers, right?	22	So this is one of those things we repeat
23	A. It's kind of a double dip. You'll	23	multiple times. We started to add heroin and
24	see it twice, which is why, if you add all of	24	fentanyl as fentanyl became a bigger player in
25	these numbers together, they exceed the total	25	our mortality.
1	Page 355	,	Page 357
1	number of	1	And then, based on the information
2	number of Q. Right.	2	And then, based on the information that we received from Project DAWN, the deaths
2 3	number of Q. Right. A overdoses.	2 3	And then, based on the information that we received from Project DAWN, the deaths avoided with Naloxone, the antidote drug for an
2 3 4	number of Q. Right. A overdoses. Q. Yep?	2 3 4	And then, based on the information that we received from Project DAWN, the deaths avoided with Naloxone, the antidote drug for an opioid overdose, we add those to generate the
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	Page 358		Page 360
1	Q. And that also drops to a projected	1	distinction.
2	1,050 in 2018, right?	2	But the data for these things, 2006,
3	A. Yes, it does.	3	2007, may not come from the VertiQ system. I
4	Q. What database is this report run	4	don't know for certain. But they do come from
5	from?	5	the coroner's office data
6	A. This report, the page we're	6	Q. Okay.
7	Q. Yeah.	7	A that we have.
8	A on right now.	8	Q. But since then, the VertiQ system is
9	Q. Well, we can start with that.	9	the system in which you keep these data, true?
10	Where do you get the data?	10	A. Absolutely, yes.
11	A. The first two columns, the heroin	11	Q. So if you took a look at exhibits 5
12	and fentanyl data, would be coming out of the	12	and 6 together, do they have any relation to
13	medical examiner's office. The Project DAWN	13	one another?
14	dota [sic] data, that we would obtain from	14	For example, if we pick a number out
15	Project DAWN. And I don't know what database	15	of the the table in Exhibit 6, could we go
16	they use to generate that.	16	through the data reflected in Exhibit 5, the
17	Q. What database within the Medical	17	big giant table, and count the number of deaths
18	Examiner's Office do you use to access these	18	and sort of cross-reference?
19	data?	19	A. This data comes from the same system
20	A. Our web site. I I'm not sure I	20	as I believe this was generated from. Again,
21	understand your question.	21	these data back to '06, '07, I'm not as certain
22	Q. Well, for example, when you're	22	whether they were back entered or not.
23	tabulating 542 fentanyl deaths for 2017,	23	But I can say confidently 2011 data
24	where'd you get that number?	24	forward, we would be able to identify a data
25	A. Oh, from the death cause of death	25	point here and run it through the VertiQ system
	Page 359		Page 261
	1 age 337		Page 361
1	data that's entered into our office management	1	to provide supporting documentation.
2	data that's entered into our office management system, the VertiQ system that I mentioned.	2	to provide supporting documentation. And I would say, you know, given
2 3	data that's entered into our office management system, the VertiQ system that I mentioned. Q. Okay. Do you also access data from	2 3	to provide supporting documentation. And I would say, you know, given what I have seen from the coroner's office,
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1	Page 362	1	Page 364
1	the cost that your department has had to bear	1 2	A. I don't remember. If I did, it wasn't really any more than I knew about
2 3	as it relates to opioid abuse? A. We did an analysis of some of the	3	Cardinal Health or McKesson.
	costs. I don't think it was exhaustive. But	4	Q. Are you familiar with the
5	we were specifically looking at additional	5	regulations imposed on distributors by the Ohio
6	personnel and additional instrumentation and	6	Board of Health?
7	those costs. That was prepared. But the	7	A. No, I'm not.
8	entire burden to the office, no, we haven't	8	Q. Are you aware of regulations imposed
9	prepared that.	9	on distributors by the Ohio Board of Pharmacy?
10	Q. And the analysis you've just	10	A. I'm sorry. I was lost your
11	referred to, who prepared that?	11	question.
12	A. I believe it was Hugh Shannon.	12	Q. Sure. I'll repeat that.
13	Q. Now, I'll represent to you that the	13	Are you
14	county has sued, as identified in its	14	A. Oh, thank you.
15	complaint, three sets of defendants. We have	15	Q. Are you familiar with any
16	the manufacturing or marketing defendants; we	16	regulations imposed on prescription drug
17	have the distribution defendants; and we have	17	distributors by the Ohio Board of Pharmacy?
18	the retail pharmacy defendants.	18	A. I thought they were required to use
19	I want to ask you a few questions	19	the OARRS system or enter data in the OARRS
20	about the distributors.	20	system. But again, I don't know that for
21	A. Sure.	21	certain either. Beyond that, no.
22	Q. Do you know which distributors were	22	Q. Are
23	sued?	23	A. I'd have to say I don't know
24	A. I don't remember the names. I've	24	anything beyond that.
25	seen it, but I don't remember them right now,	25	Q. Are you familiar with any other
	D 2/2		
	Page 363		Page 365
1	all of them.	1	Page 365 state regulation Ohio State regulation of
1 2		1 2	state regulation Ohio State regulation of drug distributors?
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1	Page 366	1	Page 368
1	And that's really the extent I think	1	So I'd have to say I don't know.
2	of anything I can think of right now about	2	Q. And do you know if drug distributors
3	contact with might have been drug	3	play any role in the DEA's setting of quotas
4	manufacturers, drug distributors. I don't	4	for the manufacture of opioids, of controlled
5	remember. But it was kind of a consortium, as		substances?
6	it was represented to us, of pharmaceutical	6	A. I don't know what goes into that DEA
7	industry.	7	practice. So I I don't know.
8	Q. Did they reach out to you or you	8	Q. Does a drug distributor know how
9	reach out to them?	9	much medication a pharmacy acquires from other
10	A. They reached out to Cuyahoga County.	10	drug distributors?
11	Q. And do you actually recall a drug	11	MR. BADALA: Objection to form.
12	distributor being among that group?	12	Steve, to be clear, when you say
13	A. I don't. You know, there were a lot	13	"distributors," I know in the complaint we have
14	of people from the pharmaceutical industry I	14	pharmacies that are distributors.
15	believe represented there. But I don't	15	Which one are you talking about now?
16	remember if it was specific distributor.	16	MR. BORANIAN: I'm referring to
17	Q. Do drug distributors manufacturer	17	wholesale distributors.
18	prescription drugs?	18	MR. BADALA: Okay. Just
19	MR. BADALA: Objection to form.	19	MR. BORANIAN: When I say
20	THE WITNESS: To the best of my	20	"distributor," I mean wholesale distributor.
21	knowledge, no.	21	MR. BADALA: All right. Just want
22	BY MR. BORANIAN:	22	to clear the record.
23	Q. Do drug distributors ever interact	23	MR. BORANIAN: I appreciate that.
24	with patients or physicians?	24	THE WITNESS: I don't know that I
25	A. I don't know.	25	understand the distinction.
	Page 367		Page 369
1	Page 367 O. Do	1	Page 369 BY MR. BORANIAN:
1 2	Q. Do		BY MR. BORANIAN:
2	Q. DoA. I would hope they weren't	2	BY MR. BORANIAN: Q. Well, is can a wholesale
2 3	Q. Do A. I would hope they weren't interacting with patients. But physicians, I	2 3	BY MR. BORANIAN: Q. Well, is can a wholesale distributor does a wholesale distributor
2 3 4	Q. Do A. I would hope they weren't interacting with patients. But physicians, I don't know if they do or not.	2 3 4	BY MR. BORANIAN: Q. Well, is can a wholesale distributor does a wholesale distributor have any way of knowing how much medication a
2 3 4 5	 Q. Do A. I would hope they weren't interacting with patients. But physicians, I don't know if they do or not. Q. Either way, you don't know, right? 	2 3 4 5	BY MR. BORANIAN: Q. Well, is can a wholesale distributor does a wholesale distributor have any way of knowing how much medication a pharmacy bought from another wholesale
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	Page 370		Daga 272
1	those doses, does it?	1	Page 372 where part of that shipment was diverted?
2	A. Oh, no. To your point, I guess no,	2	A. Oh, part of the shipment itself?
$\frac{2}{3}$	it doesn't disclose the individual distributors	3	Q. Yeah.
4	and how that's broken down by distributor.	4	A. I'm not aware of that.
5	Q. Does a dug [sic] does a drug	5	Again, the distributors, I I
6	distributor know the identity of patients to	6	think some of the pharmacies you know, there
	whom drugs were prescribed?		=
7 8	MR. BADALA: Objection.	7 8	were robberies of pharmacies. And those drugs
9	Again, wholesale distributor?	9	would have obviously been diverted.
10	MR. BORANIAN: Yes.		Q. Have you
		10	A. And some of those could be pharmacy
11	THE WITNESS: I don't know.	11	distributors. But I don't know a specific
12	BY MR. BORANIAN:	12	wholesale distributor. I've never heard of a
13	Q. Does a distributor know what a	13	robbery like that. I I just don't know.
14	patient's diagnosis is or what the patient	14	Q. One last question. If you go back
15	actually does with his or her medication?	15	to the the very latest most common drugs
16	A. I don't have information on that.	16	chart.
17	Q. Does a drug distributor have any	17	A. Yeah.
18	information about other medications a patient	18	Q. This this confirms what you told
19	might be taking or a patient's history of	19	us before, that prescription opioid-related
20	addiction?	20	deaths plateaued starting at about 2010, right?
21	A. I would not expect that, but I don't	21	MR. BADALA: Look on Exhibit 1 or 6?
22	know.	22	Because there's two that have the same page.
23	Q. In your analysis over the years, Dr.	23	MR. BORANIAN: We're in Exhibit 6.
24	Gilson, have you ever linked a specific order	24	MR. BADALA: Thank you.
25	of controlled substances shipped by any of the	25	MR. BORANIAN: The the latest
	Page 371		Page 373
1	distributor defendants in this case and any	1	one.
2	individual in the county who overdosed on		
		2	MR. BADALA: Okay.
3	drugs?	3	MR. BORANIAN: Yeah.
4	drugs? A. I don't remember ever doing that.	3 4	MR. BORANIAN: Yeah. THE WITNESS: We didn't continue to
4 5	drugs? A. I don't remember ever doing that. Q. Do you know of any instance where	3 4 5	MR. BORANIAN: Yeah. THE WITNESS: We didn't continue to see a rise in a significant way beyond 2011.
4 5 6	drugs? A. I don't remember ever doing that. Q. Do you know of any instance wherewell, strike that.	3 4 5 6	MR. BORANIAN: Yeah. THE WITNESS: We didn't continue to see a rise in a significant way beyond 2011. It seemed to have plateaued beyond that.
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94 (Pages 370 - 373)

	Page 374		Page 376
1	A. Hi, Mr. Martin.	1	MR. BADALA: Objection to form.
2	Q. Mr. Carter. But that's okay.	2	THE WITNESS: I don't know, you
3	A. Carter.	3	know, what research would be done in that. I'm
4	Q. We only met once. So no problem.	4	not aware of any one.
5	I've got some	5	BY MR. CARTER:
6	A. Thank you.	6	Q. Okay. And in the case of a medical
7	Q questions for you.	7	diagnosis of addiction, do you agree that that
8	A. Yeah.	8	diagnosis is something that you can't assume
9	Q. Because it's the end of the day, I'm	9	just from data points in terms of their
10	going to kind of jump around, be as efficient	10	substance use history, that you can't just see
11	as possible.	11	that someone used a substance and assume an
12	A. Sure.	12	addiction or a diagnosis of abuse, correct?
13	Q. If I lose you at any point, will you	13	A. From my investigation?
14	let me know?	14	Q. Yes.
15	A. Sure. Sure.	15	A. Again, you know, I think, if we
16	Q. If you don't understand one of my	16	think of an addiction as something where a
17	questions, will you let me know?	17	person continues to use drugs in spite of, you
18	A. No. Thank you for that offer.	18	know, consequences, social consequences, it
19	Q. Are you have you ever been a	19	certainly suggests itself if somebody dies of
20	pharmacist?	20	an overdose, and they've been incarcerated for
21	A. No, I have not.	21	drug charges.
22	Q. Ever practiced in that area?	22	But I as I say, I don't make the
23 24	A. No.	23	diagnosis. But it wouldn't say that I would
25	Q. Okay. You were asked some questions about addiction.	25	consider that person, you know I would
23	about addiction.	23	probably think of that person as having some
1	Page 375	1	Page 377
1 2	You've never diagnosed addiction in	1 2	issue around substance abuse.
2	You've never diagnosed addiction in the context of your work as a medical examiner,	2	issue around substance abuse. Q. But based on the data available to
2 3	You've never diagnosed addiction in the context of your work as a medical examiner, correct?	2 3	Q. But based on the data available to you, if there's not a diagnosis of substance
2 3 4	You've never diagnosed addiction in the context of your work as a medical examiner, correct? A. No, not as a medical examiner. As I	2 3 4	issue around substance abuse. Q. But based on the data available to you, if there's not a diagnosis of substance abuse or addiction in the file, you do not have
2 3 4 5	You've never diagnosed addiction in the context of your work as a medical examiner, correct? A. No, not as a medical examiner. As I say, it may appear on a medical examiner	2 3	Q. But based on the data available to you, if there's not a diagnosis of substance abuse or addiction in the file, you do not have enough information at your stage of the
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2 3 4 5 6	You've never diagnosed addiction in the context of your work as a medical examiner, correct? A. No, not as a medical examiner. As I say, it may appear on a medical examiner report, but I am relying on that, as, you know,	2 3 4 5 6	Q. But based on the data available to you, if there's not a diagnosis of substance abuse or addiction in the file, you do not have enough information at your stage of the
2 3 4 5 6 7	You've never diagnosed addiction in the context of your work as a medical examiner, correct? A. No, not as a medical examiner. As I say, it may appear on a medical examiner report, but I am relying on that, as, you know, history of substance abuse, on somebody else	2 3 4 5 6 7	Q. But based on the data available to you, if there's not a diagnosis of substance abuse or addiction in the file, you do not have enough information at your stage of the investigation where you feel comfortable offering a medical opinion more likely than not
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1	Page 378	1	Page 380
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	MR. BADALA: Objection to form. BY MR. CARTER:	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	questions about wholesale distributor
$\frac{2}{3}$		$\frac{2}{3}$	defendants. I want to ask you about retail pharmacies.
	Q. In the course of your employment	4	1
4	history, have you ever received a performance		Do you have an understanding as to
5	review that resulted in discipline?	5	the role retail pharmacies played in the
6	MR. BADALA: Objection to form.	6	distribution network of prescription opioids?
7	THE WITNESS: Not recently. And not		A. I just know that they would be, you
8	that I can remember.	8	know, a point of furnishing prescription
9	BY MR. CARTER:	9	opioids. And I don't know if I understand, you
10	Q. Okay. What was the subject matter	10	know, the retail pharmacy, just is that the
11	where you were disciplined as a result of a	11	direct-to-person distribution or whether they
12	performance review?	12	were doing wholesale things. I I'm a little
13	MR. BADALA: Objection to form.	13	unclear on that.
14	THE WITNESS: I'm sorry. I just	14	Q. Do you who the retail pharmacy
15	said I don't remember any.	15	defendants are in this case?
16	BY MR. CARTER:	16	A. I don't want to be certain. I
17	Q. You said "not recently," which to	17	believe Wal-Mart, CVS. And there may be
18	me	18	another. I just don't remember.
19	A. I don't remember any	19	Q. Have you ever initiated contact with
20	Q. Oh, okay?	20	Wal-Mart, CVS or any retail pharmacy
21	A was the follow-up answer.	21	MR. BADALA: Objection to form.
22	Q. Okay. So you don't reply or you	22	BY MR. CARTER:
23	don't recall one previously happening where	23	Q related to Cuyahoga County
24	you've lost the details?	24	opioid issues?
25	A. I don't remember one. I mean, you	25	A. Myself personally, no, I have not.
1			
	Page 379		Page 381
1	know, as a kid all kinds of thing happen.	1	Q. Okay. Do you know whether any of
2	know, as a kid all kinds of thing happen. But	2	Q. Okay. Do you know whether any of the retail pharmacies have ever generated a
2 3	know, as a kid all kinds of thing happen. But Q. And I'm	2 3	Q. Okay. Do you know whether any of the retail pharmacies have ever generated a prescription for an opioid medication?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	know, as a kid all kinds of thing happen. But Q. And I'm A. I'd have to say I don't remember. I was a pretty good boy. Q. And I'm not asking about your nonprofessional performance reviews. I'm talking about, on the job as a licensed physician, and have you receive a performance review that resulted in performance? A. No. MR. BADALA: Objection to form. BY MR. CARTER: Q. Has anyone A. Never. Q ever asked for your resignation? A. No, sir. Q. Okay. A. I mean I get calls from the public that aren't always hospitable, and they think I should, you know, pack my bags and leave. But in terms of a chain of command, no, no one's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. Do you know whether any of the retail pharmacies have ever generated a prescription for an opioid medication? A. I have to think they did, but I don't have that data. Q. So have they ever written a prescription? A. Oh, written a prescription. Only a physician can write that prescription. So I don't know, you know, if there's any physician on staff at some of them. I don't know that for certain. You know, the the minute clinic or those things aren't usually physicians. So I don't know if they ever wrote prescriptions. Q. Do you know whether any of the retail pharmacy defendants in this case ever filled a prescription that wasn't written by a DEA-registered physician? A. I don't know. Q. Okay. Sitting here today, have you concluded that any Cuyahoga County any specific Cuyahoga County resident's death is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	know, as a kid all kinds of thing happen. But Q. And I'm A. I'd have to say I don't remember. I was a pretty good boy. Q. And I'm not asking about your nonprofessional performance reviews. I'm talking about, on the job as a licensed physician, and have you receive a performance review that resulted in performance? A. No. MR. BADALA: Objection to form. BY MR. CARTER: Q. Has anyone A. Never. Q ever asked for your resignation? A. No, sir. Q. Okay. A. I mean I get calls from the public that aren't always hospitable, and they think I should, you know, pack my bags and leave. But	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Do you know whether any of the retail pharmacies have ever generated a prescription for an opioid medication? A. I have to think they did, but I don't have that data. Q. So have they ever written a prescription? A. Oh, written a prescription. Only a physician can write that prescription. So I don't know, you know, if there's any physician on staff at some of them. I don't know that for certain. You know, the the minute clinic or those things aren't usually physicians. So I don't know if they ever wrote prescriptions. Q. Do you know whether any of the retail pharmacy defendants in this case ever filled a prescription that wasn't written by a DEA-registered physician? A. I don't know. Q. Okay. Sitting here today, have you concluded that any Cuyahoga County any

Page 384 Page 382 1 A. I think, you know, it's, from my 1 has borne in terms of additional personnel in 2 perspective, a look at the aggregate and how we 2 the medical staff, toxicology staff, drug got to a point where there was an oversupply 3 3 chemistry staff, instrumentations that we had 4 and an overprescribing. 4 to purchase in toxicology and drug chemistry 5 If you want me to go back and sort 5 and -- and DNA, those are genuine expenses that 6 of try to point to one individual and say that 6 we had. 7 links back to this defendant, I'm not prepared 7 And I do think they're referable to do that. It might be possible, but I can't 8 8 back to the defendants in aggregate, though I 9 do that today. 9 wouldn't say I can tell you this was, you know, 10 Q. Sitting here today, you haven't done 10 this part or this was this part. that analysis, correct? In aggregate, I can say with 11 11 12 A. I haven't done that on a specific 12 confidence I think that the actions of the 13 case basis, no. 13 defendants are what prompted us to have to do 14 14 these things. Q. Okay. So in -- in response to the 15 question can you today connect any specific 15 Q. Okay. So you -- have that opinion Cuyahoga County resident's death to a specific you just expressed in the aggregate; you don't 16 16 17 defendant in this case --17 -- you haven't connected a specific line item expense to a specific defendant, fair? 18 MR. BADALA: Objection. 18 19 19 A. I think that's a fair statement. BY MR. CARTER: 20 Q. -- what's the answer to that? 20 Q. Now, in terms of the expenses that 21 MR. BADALA: Objection to form. 21 you believe you've incurred in the aggregate, 22 Asked and answered. 22 of those things that you mentioned with respect 23 THE WITNESS: Again, as I say, in a 23 to personnel or additional equipment, have any 24 general way I do think that the actions of the 24 of those expenses been incurred solely as a 25 defendants are responsible for lots of deaths 25 result of responding to opioid overdose deaths? Page 383 Page 385 1 1 A. Yes. in our county. 2 2 Q. Okay. Which ones? The specific, you know, can I point 3 A. I can't be exhaustive. You know, we 3 to this person and that defendant, no, I cannot 4 had dramatic rises in case loads. And that 4 do that. 5 5 started in 2015 when I think we get data that BY MR. CARTER: 6 6 Q. Have you -- in the course of links the, you know, heroin crisis back to the 7 7 prescribing. We have enough data to I think exercising your duties in Cuyahoga County, have 8 you ever made a decision, taken any action, 8 feel comfortable about that. 9 9 instituted any policy based on a public At that point I'm starting to see, 10 10 statement from one of the defendants in this you know, accreditation information from my accrediting body that we are starting to have 11 case? 11 too many case per physician. At that point I 12 MR. BADALA: Objection to form. 12 13 start to lobby for additional staff. 13 THE WITNESS: I'm not aware of 14 14 public statements that the defendants have made And 2016 obviously, with the rise in 15 in this case. So I'd have to say, in that 15 the number of deaths that we had there, you know, going from 370 up to 666, we were regard, it wasn't -- if I responded to 16 16 17 something, it wasn't intentional. 17 drowning at that point. And I needed additional staff. And we added the two 18 BY MR. CARTER: 18 19 doctors. We added two individuals to our 19 Q. Okay. Sitting here today, can you 20 toxicology unit. We added an additional drug 20 identify any cost that your office has incurred 21 21 directly as a result of a particular defendant? chemist to do testing. They all cost, you 22 A. We incurred the cost as a result of 22 know, what their salary is. 23 23 In terms of instrumentation costs. the opioid crisis. And I would say again that 24 opioid crisis is referable back to the 24 you know, as this crisis has evolved -- and

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again, I think referable back to the

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defendants. And the expenses that my office

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Page 386 Page 388 1 prescription opioids morphing into the heroin 1 accreditation to a partial accreditation in, 2 phase, morphing into the fentanyl phase and the 2 you know, response to case loads we were analogs of fentanyl, it has been incredibly 3 3 seeing. 4 challenging to keep up with the analogs of 4 So turning that population away, 5 fentanyl from a testing standpoint. 5 those drug overdoses from the adjacent counties 6 Because these are not drugs that we we contract with, that's, you know, about \$1500 6 7 had encountered before. So identifying them, 7 per case, which we would use for things like 8 8 we had to purchase a new piece of equipment the purchase of instrumentation. It would go 9 really to do a better job identifying them. into a thing called our laboratory fund and our 10 And then, you know, because these 10 budget. And one of the specific purposes of 11 drugs like a carfentanil are, you know, a 11 that laboratory fund was to, you know, upgrade 12 hundred times more potent than fentanyl, to try 12 instrumentation and things like that. 13 to find those drugs was just a challenge that O. So --13 14 14 required, again, methodology. A. So that's one. I think, you know, 15 And I can tell you those instruments 15 we incurred other expenses in terms of body 16 were hundreds of thousand of dollars. They storage. You know, we got to a point where we 16 17 weren't just, you know, like they went to the, were very concerned we were going to run out of 17 18 you know, warehouse and they picked something 18 morgue space because so many people were in our 19 up, you know, for a few hundred bucks or 19 20 something. They're very sensitive instruments, 20 And I don't know, you know, if you 21 21 and they cost a tremendous amount of money. know that in Montgomery County, which is 22 I -- I don't mean to say, you know, 22 Dayton, or Summit County, they had to get, you 23 this is an exhaustive list. Those are the 23 know, state resources, refrigerated trucks, 24 24 because they had an overflow. things I think that really were the most 25 driving expenses that we had that I'm aware of: 25 We didn't get to that point in Page 387 Page 389 1 Personnel, instrumentation. Cuyahoga County. We got close on Memorial Day 1 2 2 Q. Sitting here today, is there 2016. But we're a disaster morgue. So we're 3 anything else that you can think of that you 3 supposed to -- when this, you know, the morgue would testify your office incurred exclusively 4 was designed by my predecessor, Dr. Bolrush, we 5 as a result of opioid overdoses? 5 were supposed to be able to accommodate -- you 6 MR. BADALA: Objection to form. 6 know, granted if it was the World Trade Center, 7 7 THE WITNESS: We lost, you know, nobody could accommodate that kind of 8 revenue in my office I think starting in about 8 numbers -- but to accommodate a diaster. 9 2015 or '16 because we had to turn cases away 9 And we were at capacity. And we 10 from my office from adjacent counties. 10 went out and purchased additional storage for, 11 The corner's traditionally Ohio's you know, that possibility that we might be 11 12 kind of functionally regional death 12 overwhelmed again like that. 13 investigation system. So a coroner in a Geauga Q. So you purchased a mobile unit and 13 14 County or Medina County can't afford a system 14 never had to utilize it, correct? 15 like we have. And, you know, they needed to be 15 A. We haven't had to utilize it for able to send cases to us. 16 16 storage. 17 And because of, again, accreditation 17 Q. You mentioned May of 2016. Do you mean 4th of July weekend 2015 18 burdens that we were starting to see and high 18 19 case loads, I had to start tell them, you know, 19 when carfentanil arrived? 20 "No. You -- I can't do your drug overdose 20 A. No. This was Memorial Day weekend. 21 cases anymore. I'm drowning in my own. I'm 21 Q. Okay. So was there an acute issue 22 trying to add staff to get our accreditation when carfentanil showed up on the scene? 22 23 back in order." 23 A. Same thing that, you know, we saw --24 We were still accredited, but we 24 I think, if you go back to Exhibit 6, you can 25

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see that in 2017 carfentanil deaths really went

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were basically changed from a full

Page 390 Page 392 1 up dramatically. But we never got to the point 1 doesn't do autopsy cases on Sunday -- you know, 2 that I described Memorial Day weekend 2016 2 yes. And we don't do all of them on Monday. 3 3 where we were just -- no room at the inn So I think we get overwhelmed in that regard. 4 4 I think the other thing, too, is, anymore. 5 5 Carfentanil certainly stressed us you know, we had widenings of turnaround times 6 again in our resources. And the number rise 6 in our toxicology laboratory, which an 7 is, again, largely driven by that. 7 indication, you know, we're out of compliance 8 with our accrediting body. So yes, we're 8 So what I would say is -- I think 9 what you're talking about, the 4th of July 9 overwhelmed there. 10 weekend with carfentanil, was 2016. But that 10 Over 325 cases -- you know, autopsy was actually down in Akron where they had a 11 11 cases per physician is another, you know, 12 number of overdoses in a very short period. 12 accrediting gig that we took. And that 13 Q. And you did not have that same 13 happened in 2016 as well. 14 14 experience at that same time? BY MR. CARTER: 15 A. Not at the same time. 15 Q. When was the first time that you 16 Q. Okay. In terms of revenue from 16 made a request to the county office for more 17 out-of-county autopsy that are referred to resources because you weren't able, from your 17 18 Cuyahoga, does the county make a profit on 18 perspective, to carry the load of cases that 19 those? 19 was before you? 20 A. I honestly don't think we do. I 20 A. I'm always asking the county for 21 21 more resources. I think, you know, in response feel like we have some responsibility do, you 22 know, support death investigation in the state. 22 to some of the things I mentioned -- I don't 23 I don't know that we've ever 23 remember exact dates, but certainly when I saw 24 24 calculated out, you know, every expense, direct our 2015 numbers and that we were grazing into 25 and indirect, that we would glean from that. 25 -- there's two levels of deficiencies in my Page 391 Page 393 1 I mean but my shoot-from-the-hip accrediting body. 1 answer is, if we're making money on it, it's 2 2 Phase 1 is kind of slap on the 3 not very much. 3 wrist. Phase 2 is you're losing your -- your Q. And state law regulations actually 4 4 full accreditation. 5 5 prohibit making a profit, correct? In 2015 I started to see phase 1 A. Making a profit on? 6 deficiencies. I don't remember if it was at 6 7 7 Q. Off autopsies for your office. that point that I made the request. Certainly 8 A. I'm not aware of that law. I mean 8 in 2016, when I saw phase 2 deficiencies 9 it may be a law. I just am not aware of it. 9 showing up, I was making that request and very 10 Q. In terms of -- you mentioned a 10 stridently at that point. And, you know, we 11 couple of times being -- your office being 11 hired two additional medical staff in response 12 overwhelmed. 12 to that. What was the -- the date or time 13 13 Q. Did you ask for additional --14 frame when you were first overwhelmed? 14 A. And -- oh, I'm sorry. 15 MR. BADALA: Objection to form. 15 Q. I'm sorry. THE WITNESS: Again, I -- I'm not 16 A. I just want to say, too, that the 16 17 really sure that I could point to a specific 17 other thing that we did was to hire contract 18 date on the calendar, say "We were overwhelmed 18 physicians. And these were individuals, 19 there." I can give you instances, you know, 19 medical examiners, who we would contract with 20 like that Memorial Day weekend that I to provide autopsy service to the county. But 20 21 mentioned. 21 they weren't my employees. They were just 22 22 You know, have there been instances contractors. 23 where we've come into, you know, our autopsy --23 Q. Did you ask for additional resources 24 or into our agency, done triage and had, you 24 from the county in response to opioid deaths in 25 know, 22 cases on a Monday -- our offices 25 2011?

Page 394 Page 396 1 MR. BADALA: Objection to form. 1 you know, this is going to be the cocaine one, 2 THE WITNESS: You know, we were just 2 and this will be the opioid one. 3 really kind of get aware of the heroin crisis 3 We just have to do our best to sort in 2011. So I wouldn't think we had made the 4 that out afterwards. But, you know, the number 4 of deaths that we have with cocaine is a cost 5 5 request yet. 6 Q. Did you make such a request in 2012? 6 to the office. 7 7 And I think, as I made -- tried to A. I don't remember. Q. Did you make a -- do you remember 8 8 make clear earlier in my testimony, the number making any such request prior to 2015 and what 9 9 hasn't changed in terms of just cocaine. It 10 you described a moment ago? 10 was pull up in 2016 and '17 by mixtures with A. Can I just look at this? It may fentanyl, which again I attribute to the opioid 11 11 12 help me. 12 crisis, not cocaine changing dramatically. 13 The timelines are a little blurry to 13 Q. And we're in the home stretch. So me, but -- we did add a physician in 2014. 14 if you could do your best to try to respond to 14 15 That would be Dr. Dolenack. 15 the question. Mine was just do you have costs from cocaine. So I think you've answered that, 16 Q. Was that as a result of opioid 16 17 overdose deaths? 17 at least initially. 18 A. In part, yes. 18 Let me ask this question: Does the 19 Q. Was it exclusively? 19 cost for inviting overdose deaths in your 20 A. I don't remember exactly. But I 20 office vary by substance? 21 21 think we were very concerned about this rising A. I -- I can't give you -- I can give you a "yes" and "no." Then if I can expand a 22 tide of opiate deaths that we were seeing. 22 23 And part of what we rely on in our 23 little bit on that. 24 office is we train future medical examiners. 24 Q. Well, let me ask it this way. And 25 We actually have the oldest training program in 25 then, if you still need to expand, you can. Page 395 Page 397 1 the country for that. And, you know, they can 1 Sitting here today, can you give me 2 2 come and do work. They're not a consistent a rank order in terms of heroin versus cocaine 3 thing. 3 versus prescription opioids versus fentanyl in 4 terms of which one is -- in terms of what the 4 For example, this year we don't have any -- be -- they're fellows. This is what I 5 actual cost per investigation is for your 5 6 did when I did my training in New York City. 6 office? 7 7 Do you know those precise numbers? We don't have anybody this year. 8 We, you know, have two the year 8 A. I don't -before. Usually we have one, no more than two. 9 MR. BADALA: Objection to form. 9 10 10 And, you know, they're a great help when THE WITNESS: I don't think we've 11 they're there. 11 drilled down to the unit cost per each of those 12 But I remember in 2014, when I was 12 tests. You know, some of these things are going to be panels that we'll do screens on. 13 talking about getting another physician, that, 13 14 Where I would really say we bore an 14 you know, I -- I -- I made that clear that, you 15 know, we have an increasing caseload because of 15 additional cost above and beyond kind of routine testing were with the analogs of the crisis, and this is not something we can 16 16 17 consistently rely on as a, you know, help for 17 fentanyl. Because we had a find standards for them, which in many cases weren't even 18 this because there may be years we don't have 18 19 available. We had to upgrade instrumentation. 19 anybody, like this year. 20 And again, that would be kind of the unit cost 20 Q. Does your office incur costs in 21 21 terms of money and resources as a result of I can't provide. 22 22 But I would say that, you know, it cocaine overdoses? 23 23 wasn't trivial with the expense of those A. I mean we're investigating cocaine 24 deaths. So autopsy work there would be a cost. 24 instruments, that we needed to do a better job

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I don't think we go into it thinking this is --

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analyzing them.

Page 398 Page 400 1 BY MR. CARTER: 1 didn't happen. I just don't remember it. 2 Q. I want to follow up on one of the 2 Q. Do you recall testifying that, for 3 quest -- one of the questions from last week. 3 the year 2012 to 2013, that a quarter of the 4 I asked you about a statement you made before overdose deaths that you saw were the result of 5 congress in terms of character -doctor shopping and that mandatory use of OARRS 6 characterizing the supply into the County of by physicians prior to any pain medication 7 fentanyl from China and Mexico, that it could prescription would eliminate that possibility 8 essentially be considered an act of terrorism. 8 and that that simple step of making it 9 Do you recall that testimony to 9 mandatory could save up to 50 lives a year in 10 congress? 10 Cuyahoga County alone? 11 A. I recall the testimony --11 Do you recall that testimony? 12 Q. Okay. 12 MR. BADALA: Objection to form. 13 -- to congress. 13 THE WITNESS: I don't remember the 14 And you indicated yesterday that 14 specific testimony. If I'm in the same time 15 that was not -- you wouldn't think it was --15 frame, actually, our first data on doctor 16 or -- I said yesterday. shopping would have been in 2013. And that was 16 17 You indicated last week that you 36 percent, so not 25 percent. So I'm thinking 17 18 didn't think it was fair that the county would 18 the testimony must have been later. It 19 adopt that as an official position. So leave 19 subsequently has gone down to about 20 to 25 20 the county out it because this is your 20 percent. 21 individual deposition. 21 And -- yeah. I -- I don't remember 22 Do you stand by that 22 the specifics of the testimony. I did 23 characterization today in your personal view? 23 advocate, you know, within our task forces 24 A. If I take a definition of that, you know, mandatory checks on OARRS prior 24 25 "terrorism" as the introduction of an agent 25 to prescribing would eliminate the potential Page 399 Page 401 1 that is harming the citizens of another for diversion through the doctor shopping 1 2 country, yes, I stand by that statement. 2 route. 3 Q. Okay. And is that the definition 3 BY MR. CARTER: that you were using? 4 4 Q. If you testified in front of the 5 A. That's what I meant to say when I 5 state legislature advocating for the -- the 6 made that statement. mandatory requirement of physicians checking 7 7 Q. Okay. OARRS before writing a prescription, you would 8 A. The drugs that were coming from 8 have been accurate and truthful in that China, in large measure -- I can't say every 9 9 context, correct? 10 fentanyl drug that came here was from China. 10 A. I would hope to be. Sure. 11 But we -- you know, based on my discussions Q. Okay. And what about the view that 11 12 with law enforcement, that was a major source. 12 making mandatory use of OARRS prior to a pain 13 And yes, those drugs were killing a medication prescription on the part of 13 14 lot of people in our community. And, you know, 14 physicians? 15 it's not a big stretch to me to see that, you 15 Do you think that making that know, in the context of flying an airplane into mandatory would eliminate the possibility of 16 16 17 a building and killing citizens here too. 17 doctor shopping and could save up to 50 lives 18 Q. You were asked to testify in an Ohio 18 per year in Cuyahoga County? 19 legislative proceeding relative to the change 19 A. I think that the mandatory checks on 20 in OARRS regulation. OARRS would reduce doctor shopping. You know, 20 21 Do you recall testifying in that 21 where the number came from, I don't remember. 22 22 capacity? If this was testimony in Columbus, I don't even 23 A. I remember testifying about Naloxone 23 remember going to Columbus. 24 with the joint Ohio House and Senate. I don't 24 There was a group of legislators who 25 remember OARRS testimony. I'm not saying it 25 came to -- I believe it was Medina County. I

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Page 402 Page 404 1 remember talking to them. But the memory I 1 BY MR. CARTER: 2 have of that was that it was more about 2 Q. You were asked some questions Naloxone. I -- I don't remember the specific. 3 earlier by Mr. Boranian about certifying the 3 cause and manner of death and what that 4 But, you know, as I sit here today, 4 5 I think that, when the prescribers of opioids 5 certification means. 6 would be required to check OARRS before 6 I want to follow up in that area. 7 prescribing, yeah, that's an excellent idea. 7 Okay? 8 I would say, you know, how many 8 A. Sure. 9 lives it could have saved at that time isn't 9 Q. Is it important -- is the function 10 going to be the same necessarily as how many it 10 that your office performs in certifying cause could save today. But it would have saved and manner of death, do you think that's 11 11 12 potentially, you know, diversion of drugs into important to the public? 12 13 this area. 13 A. On so many levels, absolutely. Yes. 14 14 Q. And you told Mr. Boranian that those Q. And so whatever the number was, if 15 you provided a number under oath, you could 15 ultimate conclusions that are certified, that's stand by that in terms of making mandatory the result of a medical opinion produced from 16 16 17 checking of OARRS before writing a 17 the exercise of medical judgment, correct? prescription, that that -- that change alone 18 18 A. That's true for any death 19 could prevent deaths in some number? 19 certificate, my office included, yes. 20 A. Again, I -- you know, I don't 20 Q. Okay. So in the course of your 21 entire work in Cuyahoga County, have you ever remember testifying, especially under oath to a 21 22 legislative body. I remember, you know, 22 certified as the cause and manner of death, in 23 talking to a group of House and Senate people 23 an overdose case where the person used heroin 24 from Ohio. But I don't remember that specific 24 or illicit fentanyl or cocaine but did not have 25 testimony. 25 any toxicology or evidence or OARRS profile of Page 403 Page 405 1 I would say that the mandatory check 1 prescription drug use -- so in that type of 2 situation, have you ever certified as a cause 2 of OARRS prior to prescribing, in the face of 3 3 doctor shopping as we see it, and continue to or manner of death that their overdose death 4 see it, actually, would, you know, prevent was due to or referable to or arising out of a 4 diversion and could save lives. 5 5 prescription opioid epidemic? 6 MR. BADALA: Objection to form. 6 I -- I -- I don't know where I 7 7 THE WITNESS: That one you lost me necessarily could have gotten that number. But 8 it may have been a percentage of individuals 8 on. 9 BY MR. CARTER: 9 who may not have become addicted. I don't 10 10 remember what went into the calculation. Q. Sure. Have you ever certified a cocaine 11 But if I said a number. I'd have to 11 death where there's no prescription opioid use 12 go back and revisit how I came to that number. 12 in your investigation -- have you ever 13 13 But I would tend to stand by, you know, those 14 certified a case like that and -- and noted on 14 things. I don't try to pull them out of the 15 air. 15 the death certificate that that cocaine 16 Q. So -- so putting aside the context 16 overdose was referable to the opioid epidemic? 17 and the testimony, let me just ask you the 17 A. No. Q. Have you ever certified in such a 18 question. 18 19 case that the cocaine overdose was directly 19 Do you think the mandatory 20 linked to the conduct of the defendants in this 20 requirement prior to a prescription by itself 21 21 would save lives? case? 22 A. Yes. 22 A. Just so we're clear, we're talking 23 23 about cocaine in the absence of any opioid, be MR. BADALA: Objection to form. 24 THE WITNESS: I think the state does 24 it --25 too. We enacted that in April of 2015. 25 Q. Correct.

Page 406 Page 408 1 A. -- prescription opioid, heroin, 1 addicted to heroin after they had developed 2 fentanyl? 2 addiction to opioid pain reliever, I would 3 Q. So cocaine in the absence of any 3 still link that back to the opioid pain 4 prescription opioid. 4 relievers, but I'm not going write "opioid pain 5 So cocaine plus illicit fentanyl, reliever" on the death certificate. Because cocaine plus heroin, cocaine by itself, cocaine 6 what my toxicology shows me was terminal event, 7 plus any substance that is not a prescription which is what I am using to certify cause of 8 8 death, and that would be heroin and cocaine. opioid. 9 In any of those cases, have you ever 9 BY MR. CARTER: 10 certified as a cause or manner of death that 10 Q. Okay. If you believed, using your 11 that overdose death was caused as a result of medical, judgment that medically more likely 11 12 the conduct of the defendants in this case? 12 than not one of those deaths was directly 13 A. That's not really what a death caused by the opioid epidemic or the conduct of 13 14 certificate's function is. There's no place to a defendant in this case, would you not have an 14 15 check that. 15 obligation, as someone executing your duties 16 So the answer, I mean shortly, is under office, to include what you believed to 16 17 no. We don't put that information on a death 17 be the -- you know, the actual medical cause 18 certificate. But that's not the function of a 18 and manner of death? 19 death certificate. 19 MR. BADALA: Objection to form. 20 So I'm not aware of any jurisdiction 20 THE WITNESS: I think you're making 21 that would do something like that. We 21 a mistake about what a cause of death is. 22 certainly don't because I don't think that's a 22 It's -- you know, by definition it's an injury 23 good practice. 23 or disease which, in a natural, unbroken 24 Q. So the function of the death 24 sequence, produces death and in whose absence 25 certificate is to arrive at the official 2.5 death would not have occurred. Page 407 Page 409 1 medical opinion as to the cause and manner of 1 So we don't go back and say, you death, correct? 2 2 know, two weeks ago, you know, something 3 A. Right. We're going to enter a cause 3 happened here if it's not relevant to the and manner of death on a death certificate and 4 4 actual terminal event. 5 5 then other information, potentially around an BY MR. CARTER: 6 injury, if that's an unnatural cause of death. 6 Q. So in terms of your obligations to 7 Q. And so, if you thought that a execute your office, you are required and you, 8 cocaine overdose, where there's no evidence of 8 in fact, do certify the cause and manner of prescription opioid use in that person's death using your best medical judgment for all 10 history, if you nonetheless thought as a 10 of the cases before you, correct? 11 medical opinion that that death was 11 MR. BADALA: Objection to form. 12 attributable to or directly linked to an 12 THE WITNESS: I will certify the 13 underlying prescription opioid epidemic, as a cases I'm directly responsible for. And I 13 14 medical matter, you would include that on the 14 review the cases that go through the office. 15 death certificate, would you not? 15 BY MR. CARTER: 16 MR. BADALA: Objection to form. 16 Q. Okay. And --17 THE WITNESS: No. Because if the 17 MR. BADALA: And, Counsel, before 18 drug isn't present, it's not relevant to the 18 you start your next question, do we've seven 19 terminal cause of death. But that doesn't in 19 hours there? I'm sorry. 20 any way mean that it's not related to the 20 MR. CARTER: No. I still have two 21 prescription opioid epidemic. 21 more minutes. 22 If I had somebody who, for example, 22 THE VIDEOGRAPHER: Two more minutes. 23 you know, died of cocaine and heroin overdose, 23 MR. BADALA: Two more minutes? 24 and they were one of those, you know, 24 MR. CARTER: Yeah.

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MR. BADALA: Okay. I just wanted to

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substantial percentage of people who became

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	D 410		D 410
1	Page 410 double-check.	1	Page 412
		1	community when we saw the infiltration of the
2	MR. CARTER: So and now I guess	2	cocaine market with fentanyl. You know, I know
3	I I have two more minutes after your	3	in the task forces we've offered, you know, an
4	discussion.	4	analysis of the death data to say, "We're
5	BY MR. CARTER:	5	seeing this rise in cocaine. We're seeing this
6	Q. So in the course of those in	6	rise in heroin. But when we drill into the
7	executing your duty, have you ever written on	7	data, that rise is related to fentanyl."
8	any death certificate that the cause or manner	8	And as I said, the drugs that we
9	of death was an underlying prescription opioid	l .	see, you know, now, the heroin before and the
10	epidemic?	10	fentanyl, are a continuum of the prescription
11	MR. BADALA: Objection to form.	11	pain relievers. And I think, you know, we've
12	BY MR. CARTER:	12	generated independent data. And there's, you
13	Q. Have you ever done that when	13	know, a consensus, I think, from, you know, CDC
14	executing your day job?	14	about the phases of the opioid crisis.
15	A. It's, again, not the function of me	15	So I I wouldn't say, you know,
16	as a death certifier. It's a function I would	16	that here's the prescription opioid crisis,
17	participate in as a public health official.	17	here's the heroin. It's the opioid crisis, and
18	But it's not the way a death certificate would	18	it has different phases.
19	be used in Ohio or any other jurisdiction I	19	MR. CARTER: Thank you.
20	worked in.	20	I'm out of time.
21	Q. Prior to this lawsuit, have you ever	21	THE WITNESS: Thanks.
22	broken down the number of cocaine overdose	22	THE VIDEOGRAPHER: We are going off
23	deaths and said which ones or what percentage	23	the record at 6:22 p.m.
24	of those were directly attributable or	24	This concludes today's testimony of
25	referable to an opioid epidemic?	25	
	Page 411		Page 413
1	Page 411 Have you ever made such a public	1	Page 413 MR. BADALA: No, no. It doesn't
1 2		1 2	_
	Have you ever made such a public		MR. BADALA: No, no. It doesn't
2	Have you ever made such a public comment?	2	MR. BADALA: No, no. It doesn't conclude. We're going to have some questions.
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	Page 414		Page 416
1	A. Yes, I do.	1	Dr. Gilson, what was your reaction
2	Q. Doctor, I want to preface this	2	when you heard Ms. Rendon was representing a
3	question by saying I don't want you to disclose	3	defendant in this litigation?
4	any confidences, if there were any.	4	A. I like Carole Rendon. I enjoyed the
5	However, at any point in time while	5	time we worked together when she was the U.S.
6	Ms. Rendon was at the U.S. Attorney's Office,	6	Attorney and deputy U.S. Attorney. And I just
7	did you have confidential conversations with	7	have to say I was very disappointed when I saw
8	Ms. Rendon related to prosecutions and/or	8	that. I it was disappointment.
9	strategy?	9	Q. Now, Dr. Gilson, earlier you were
10	MS. HARTMAN: Objection.	10	asked a series of questions about potentially
11	THE WITNESS: Can I answer?	11	responsible parties in this litigation.
12	MR. BADALA: Yes.	12	Do you recall that?
13	THE WITNESS: Yes. I felt we were	13	A. Yes, I do.
14	sharing things that I wouldn't have shared in a	14	Q. Doctor, do you have any reason to
15	general forum.	15	believe that Cuyahoga County failed to name any
16	BY MR. BADALA:	16	parties as defendants that you believed to be
17	Q. Now, earlier you were asked some	17	responsible for the opioid epidemic?
18	questions about the Burrage case.	18	MR. CARTER: Objection to the form.
19	Do you recall that?	19	THE WITNESS: I think Cuyahoga
20	A. Yes.	20	County named the appropriate defendants in this
21	Q. And you were asked some questions	21	litigation.
22	about a subsequent article that you copublished	22	When we spoke earlier, we talked
23	with Ms. Rendon?	23	about drug cartels and pill mills and things
24	A. We coauthored, yes.	24	like that. And I would say that, you know,
25	Q. Was everything that you discussed	25	those are criminal operations and certainly
1	Page 415	1	Page 417
1	with Ms. Rendon included in that article?	1	should be, you know, deplored and punished.
2 3	MR. CARTER: Objection to the form.	2 3	But ultimately, it it's my belief that the actions of the defendants created a
4	THE WITNESS: No.	4	climate in which those individuals took
5	BY MR. BADALA:	5	advantage of the county as well.
6	Q. Do you know if Ms. Rendon is	6	MR. BADALA: I have no further
7	currently representing any defendants in this	7	questions.
8	litigation?	8	MR. HARTMAN: I also have some
9	A. Yes, I do.	9	recross. So
10	Q. What was your reaction when you	10	MR. BADALA: How much time did we
11	heard that Ms. Rendon was representing a	11	just have on there?
12	defendant in this litigation?	12	MR. CARTER: Three minutes and two
13	MS. HARTMAN: Objection.	13	seconds.
14	THE REPORTER: I'm sorry. Who said		MR. BADALA: Okay.
15	that?	15	MR. HARTMAN: I want to take a
16	MS. HARTMAN: Objection.	16	two-minute break and then come back with the
17	THE REPORTER: I just wanted to see	17	recross.
18	who it was.	18	MR. BADALA: You want to go off the
19	MS. HARTMAN: Ruth.	19	record? Is that what you're saying?
20	BY MR. BADALA:	20	MS. HARTMAN: Yeah. We'll go off
21	Q. You can answer.	21	the record.
22	Do you want me to repeat the	22	MR. BADALA: Okay.
23	question?	23	MS. HARTMAN: Did you say it was
24	A. If you would, please. Yeah.	24	three minutes?
25	Q. Sure.	25	MR. BADALA: Two seconds.

	Page 418		Page 420
1	MS. HARTMAN: Okay.	1	tracking these things, I was going to be the
2	THE VIDEOGRAPHER: We are going off	2	person who was going to be called.
3	the record.	3	Q. Okay. So but but this never
4	The time is 6:31.	4	came to fruition; is that correct?
5	(A short recess was taken.)	5	MR. BADALA: Objection to form.
6	THE VIDEOGRAPHER: We are back on	6	THE WITNESS: No. There have been a
7	the record.	7	couple of cases I have had those discussions.
8	The time is 6:43.	8	But none of them
9	You may proceed, Counsel.	9	MS. HARTMAN: Okay.
10	EXAMINATION BY COUNSEL FOR	10	THE WITNESS: have actually gone
11	ENDO HEALTH SOLUTIONS, INC, AND	11	to trial.
		12	BY MS. HARTMAN:
12	ENDO PHARMACEUTICALS, INC, BY MS. HARTMAN:	13	
13			Q. Okay. Was the information you
14	Q. Good afternoon or rather evening, Dr. Gilson.	14	shared with Ms. Rendon that you suggested was confidential in the context of the U.S.
15		15	
16	A. Evening.	16	Attorney Heroin and Opiate Task Force?
17	Q. My name is Ruth Hartman. And I am	17	A. You mean the task force meetings?
18	here on behalf of the Endo defendants.	18	Q. Uh-huh.
19	I just have a few	19	A. No. This would have been more
20	A. Good afternoon good evening.	20	discussion I had with her.
21	Q. Good evening.	21	Q. About the expert witness position?
22	I have a few follow-up questions.	22	MR. BADALA: Objection to form.
23	You just testified that you shared	23	THE WITNESS: I misrecall your
24	confidential information and strategy related	24 25	question. BY MS. HARTMAN:
25	to prosecutions with Ms. Rendon; is that	23	DI MIS. HAKTMAN.
1	Page 419	1	Page 421 O All right So what was the context
1 2	correct?	1 2	Q. All right. So what was the context
2	correct? A. Yes, I did.	2	Q. All right. So what was the context of this confidential information?
2 3	correct? A. Yes, I did. Q. Did Ms. Rendon compel the sharing of	2 3	Q. All right. So what was the context of this confidential information? MR. BADALA: I'm just going to
2 3 4	correct? A. Yes, I did. Q. Did Ms. Rendon compel the sharing of this information that you shared with her?	2 3 4	Q. All right. So what was the context of this confidential information? MR. BADALA: I'm just going to instruct you, if it's confidential, not to
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106 (Pages 418 - 421)

1	D	D 404
1	Page 422 BY MS. HARTMAN:	Page 424
2	Q. You can answer "yes" or "no" without	2
3	disclosing any information.	3 I, Bonnie L. Russo, Certified Shorthand
4	MR. BADALA: Well, that would be	4 Reporter, and Notary Public, hereby certify:
5	disclosing if there was.	5 That THOMAS GILSON was duly sworn by
6	So I'm going to instruct you not to	6 me, an authorized Notary Public, and that this
7	respond not to answer that question.	7 deposition is a true and correct record of the
8	BY MS. HARTMAN:	8 testimony given by such witness to the best of
9	Q. But you're not aware of any incident	9 my knowledge and ability.
10	when the U.S. Attorney's Office pursued any of	10 I further certify that I am not related
11	the defendants this is this case; is that	11 to any of the parties to this action and that I
12	correct?	12 am in no way interested in the outcome of this
13	MR. BADALA: Objection to form.	13 matter.
14	THE WITNESS: I don't know of any	14 In witness whereof, I have hereunto set
15	case that they brought against the	15 my hand this day, January 25, 2019.
16	pharmaceutical companies or the distributors.	16
17	MR. BADALA: And, Counsel	17 prince & Person
18	BY MS. HARTMAN:	18 Bonnie L. Russo
19	Q. Or manufacturers?	19 Certified Shorthand Reporter
20	MR. BADALA: before you start	20
21	your next question, I think we're out of time.	21
22	MS. FLEMMING: We are.	22
23	MR. BADALA: We are. Yeah. You've	23
24	been on for three minutes.	24
25	MS. HARTMAN: Okay.	25
	Page 423	
1	THE VIDEOGRAPHER: We are going off	1 Veritext Legal Solutions 1100 Superior Ave
2	the record at 6:46 p.m.	2 Suite 1820 Cleveland, Ohio 44114
3	This concludes today's testimony of	3 Phone: 216-523-1313
4	Dr. Thomas Gilson.	4 January 25, 2019
5	The total number of media units was	5 To: Salvatore C Badala, Esq
6	seven and will be retained by Veritext Legal	6
7	Solutions.	Case Name: In Re: National Prescription Opiate Litigation
8	(Whereupon, the proceeding was	Veritext Reference Number: 3196188
9	concluded at 6:47 p.m.)	
10		8 Witness: Thomas Gilson, M D Deposition Date: 1/22/2019
10 11		THE CONTROL OF THE PROPERTY OF
2700000		Witness: Thomas Gilson, M D Deposition Date: 1/22/2019 9 10 Dear Sir/Madam: 11
11		Witness: Thomas Gilson, M D Deposition Date: 1/22/2019 9 10 Dear Sir/Madam: 11 Enclosed please find a deposition transcript Please have the witness 12
11 12 13 14		Witness: Thomas Gilson, M D Deposition Date: 1/22/2019 9 10 Dear Sir/Madam: 11 Enclosed please find a deposition transcript Please have the witness 12 review the transcript and note any changes or corrections on the 13
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		Page 426		Page 428
1	DEPOSITION REVIEW	1 age 420	1 ERRATA SHEET	1 age 720
2	CERTIFICATION OF WITNESS		VERITEXT LEGAL SOLUTIONS MIDWEST	
	ASSIGNMENT REFERENCE NO: 3196188		2 ASSIGNMENT NO: 1/22/2019	
3	CASE NAME: In Re: National Prescription Opiate Litigation DATE OF DEPOSITION: 1/22/2019		3 PAGE/LINE(S) / CHANGE /REASON	
4	WITNESS' NAME: Thomas Gilson, M D		4	
5			5	
6	Procedure, I have read the entire transcript of my testimony or it has been read to me		6	
7	I have made no changes to the testimony		7	
8	as transcribed by the court reporter		8	
8			9	
	Date Thomas Gilson, M D		10	
10	Sworn to and subscribed before me, a Notary Public in and for the State and County,		11	
11	the referenced witness did personally appear		12	
12	and acknowledge that:		13	
12	They have read the transcript;		14	
13	They signed the foregoing Sworn		15	
14	Statement; and Their execution of this Statement is of		16	
	their free act and deed		17	
15	I have affixed my name and official seal		18	
16	•		19	
17	this, 20			
1 /			20 Date Thomas Gilson, M.D.	
18	Notary Public		21 SUBSCRIBED AND SWORN TO BEFORE ME THIS _	
19	Commission Expiration Date		22 DAY OF, 20	
20	Commission Expiration Bate		23	
21 22			Notary Public	
23			24	
24 25				
			25 Commission Expiration Date	
23			25 Commission Expiration Date	
	DEPOSITION REVIEW	Page 427	25 Commission Expiration Date	
1	DEPOSITION REVIEW CERTIFICATION OF WITNESS	Page 427	25 Commission Expiration Date	
	CERTIFICATION OF WITNESS	Page 427	25 Commission Expiration Date	
1 2		Page 427	25 Commission Expiration Date	
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Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF SEPTEMBER 1,

2016. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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